

ANNUAL SUMMARY

BIRTHS, DEATHS, AND CAUSES OF DEATH

LONDON

AND OTHER GREAT TOWNS,

1892.

PUBLISHED BY THE AUTHORITY OF THE REGISTRAR GENERAL OF
BIRTHS, DEATHS, AND MARRIAGES IN ENGLAND.



LONDON:

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REGISTRATION LONDON.*

AREA.—The Area of Registration London is 77,410 acres or 121 square miles, including 2718 acres of tidal water; this is equal to 31,326 hectares, or 313 square kilometres. The length of the streets and roads, as returned in 1882, was more than 1600 miles; and, from that date to the end of 1892, a total length of 172 miles of new streets had been sanctioned. The Area of London being 121 square miles is equal to a square of 11 miles to the side.

ELEVATION.—The population of London resides at a mean elevation of 60 feet (18·2 metres) above approximate mean water at Liverpool; the elevation varying from 1 foot (0·3 metre) in Plumstead Marshes, to 441 feet (134·4 metres) at Hampstead, above approximate mean water at Liverpool.

HOUSES.—At the Census in 1891 there were within this area 553,764 inhabited houses, containing an average of 7·6 persons to a house, a slightly lower proportion than in 1871 and 1881.

ANNUAL RATABLE VALUE.—The Annual Ratable Value of Property within Registration London in 1891, as assessed in accordance with the Valuation (Metropolis) Act, 1869, was 31,819,412*l*.† (For Annual Ratable Value of Greater London in 1891, see Table 7.)

DENSITY (1892).—141 persons to a hectare; 57·1 to an acre; 36,530 to a square mile. (In these calculations no account is taken of tidal water.)

ANNUAL RATE OF INCREASE OF POPULATION PER CENT. . $\left\{ \begin{array}{ll} 1861-71. & . \ 1\cdot50 \\ 1871-81. & . \ 1\cdot61 \\ 1881-91. & . \ 1\cdot04 \end{array} \right.$

1892.

POPULATION	$\left\{ \begin{array}{ll} \text{Males} & . \ 2,015,131 \\ \text{Females} & . \ 2,248,163 \end{array} \right\}$	PERSONS. 4,263,294
(Estimated to the middle of the year.)		
MARRIAGES		37,175
PERSONS MARRIED		74,350
ANNUAL RATE OF PERSONS MARRIED PER 1000 OF THE POPULATION		17·4
BIRTHS	$\left\{ \begin{array}{ll} \text{Males} & . \ 67,021 \\ \text{Females} & . \ 64,514 \end{array} \right\}$	PERSONS. 131,535
ANNUAL RATE OF BIRTHS PER 1000 OF THE POPULATION		30·9
DEATHS	$\left\{ \begin{array}{ll} \text{Males} & . \ 44,541 \\ \text{Females} & . \ 43,208 \end{array} \right\}$	PERSONS. 87,749
ANNUAL RATE OF MORTALITY PER 1000	$\left\{ \begin{array}{ll} \text{Males} & . \ 22\cdot3 \\ \text{Females} & . \ 19\cdot3 \end{array} \right\}$	PERSONS. 20·6
EXCESS OF REGISTERED BIRTHS OVER DEATHS		43,786
ESTIMATED INCREASE OF POPULATION		42,050

* Registration London is co-extensive with the Administrative County of London except that the hamlet of Penge is excluded from Registration London, although forming part of the County of London.

† This information is derived from a return of the Gross and Ratable Value of Property in the Metropolis issued by the London County Council.

ANNUAL SUMMARY.

LONDON

AND OTHER GREAT TOWNS,

1892.

*General Register Office, Somerset House,
1st March, 1893.*

The Great Towns.

The thirty-three great towns of England and Wales to which this summary relates contained a population estimated at 10,188,449 persons in the middle of 1892. The births registered among this population in the course of the 52 weeks ending on 31st December 1892 numbered 324,190, and were in the proportion of 31·9 in a calendar year among 1000 persons living. The deaths registered in the 52 weeks were 209,985, giving an annual rate of 20·7 per 1000 persons living.

The general death-rate in 1892, that is to say the number of deaths in the year, to 1000 inhabitants without distinction of age or sex, varied very much in the thirty-three great towns, the range extending from 15·8 in Croydon, to 24·7 in Liverpool, as is shown in Table 2 on page xviii.

It must, however, be borne in mind that any comparison made between different towns in regard to the healthiness of their respective populations, if based simply on their general death-rates, as defined above, is liable to lead to a more or less erroneous conclusion, unless it has been previously ascertained that the towns thus put into comparison show no material differences from each other in respect of the sex and age distribution of their populations; for it is self-evident that if the death-rates at each successive age-period be precisely alike in two towns, but in the population of one of them there be a much larger proportion either of very young or of very old persons than in the population of the other, the general death-rate will almost certainly be higher in the former than in the latter, inasmuch as the average mortality of the very young or very old is much higher than that of persons of intermediate ages; and so also will it be, if one town has a much larger proportion of males than the other, inasmuch as the male death-rate is almost invariably higher than the female death-rate.

Thus, taking the population of each of the thirty-three towns, with the age and sex distribution shown at the last census, and applying to it the mean annual death-rate for each sex, at each age-period, in England and Wales in 1881-90, we have a series of general death-rates, which are given in column 1 of Table A. on page 7.

It will at once be seen that these rates differ considerably from each other, and from the rate in England and Wales as a whole. The differences are caused simply and wholly by differences in sex and age distribution, the rates being those which would have been recorded in the towns as their general death-rates, had their male and female population been equally healthy with the male and female population of the entire country at each separate age-period. It will be convenient to speak of these hypothetical death-rates in column 1 as the *standard* rates.

Before, therefore, the *recorded* death-rates in the towns can be fairly put into comparison with each other, or with England and Wales as a whole, as measures of healthiness, they must be corrected for these inherent differences of the *standard* rates; and such correction will be at any rate approximately made if the *recorded* rate in each town be multiplied by the number against the town in column 2; this number being obtained by dividing the annual death-rate in England and Wales in the last decennium (19·15) by the *standard* death-rate in column 1.

This correction, it must be clearly understood, does not profess to be more than approximative. A far more accurate method of correction would be to ascertain the male and female death-rates at each successive age-period in each town, and apply these to a standard population, that is a population with fixed age and sex distribution; but unfortunately the absence of the necessary data precludes the use of this method in the case of the thirty-three great towns included in this Annual Summary.

The figures in column 2 will, therefore, be used, in this and succeeding Annual Summaries, as Factors for correction of the recorded general death-rates.

The recorded death-rates in the several great towns in 1892 are given in column 3; multiplying these by the Factors, we obtain the corrected death-rates in column 4. These are approximately the death-rates that would have been recorded in the several towns, had their populations been identical, so far as age and sex distribution is concerned, with the population of England and Wales; and it will at once be seen, on comparing the recorded with the corrected rates, that the mortality of the towns as compared with that of the entire country is, with but few exceptions, much greater than would be concluded from the recorded general death-rates. The towns contain, as a rule, a much smaller proportion of aged persons and a much higher proportion of persons in the prime of life, as also a much higher proportion of females, than does the country at large; and though these advantages are somewhat counter-balanced by an excess in the proportion of children, they are so to a limited extent only.

The great differences in mortality that exist between one great town and another, and between the several towns and England and Wales as a whole, may perhaps be more readily apprehended, if the mortality in England and Wales be represented by 1000, and that in each town, after correction for age and sex distribution, by its proportional figure. This has been done in column 5, and it will there be seen that there are but three of the great towns, namely, Croydon, Plymouth, and Portsmouth, in which the mortality was below that of the entire country, while there are some, namely, Manchester, Liverpool, and Salford, in which the mortality showed an excess of more than 40 per cent.

TABLE A.—RECORDED and CORRECTED DEATH-RATES per 1000 Persons living in 33 Great Towns in 1892.

Towns, in the order of their Corrected Death-rates.	Standard Death-rate.*	Factor for Correction for Sex and Age Dis- tribution.†	Recorded Death-rate, 1892.	Corrected Death-rate, 1892.‡	Comparative Mortality Figure, 1892.§
Cols.	1.	2.	3.	4.	5.
England and Wales -	19.15	—	19.01	19.01	1000
England and Wales, less the 33 Towns -	19.45	0.9846	18.09	17.81	937
33 Towns -	17.71	1.0813	20.67	22.35	1176
Croydon -	18.37	1.0424	15.81	16.48	867
Plymouth -	19.70	0.9720	18.79	18.26	961
Portsmouth -	18.73	1.0224	18.49	18.90	994
Norwich -	19.99	0.9579	20.00	19.16	1008
Brighton -	18.94	1.0110	19.22	19.43	1022
Leicester -	17.64	1.0855	18.16	19.71	1037
West Ham -	17.75	1.0788	18.60	20.07	1056
Nottingham -	17.81	1.0752	18.73	20.14	1059
Derby -	17.36	1.1031	18.31	20.20	1063
Gateshead -	17.83	1.0740	18.91	20.31	1068
Bristol -	18.33	1.0447	19.46	20.33	1069
Bradford -	16.73	1.1446	17.96	20.56	1082
Hull -	18.23	1.0504	19.65	20.64	1086
Huddersfield -	16.47	1.1627	18.05	20.99	1104
Cardiff -	17.16	1.1159	18.84	21.02	1106
Newcastle -	17.58	1.0892	19.70	21.46	1129
Birkenhead -	17.42	1.0993	19.60	21.55	1134
Halifax -	17.20	1.1133	19.51	21.72	1143
Leeds -	17.28	1.1082	19.76	21.90	1152
Sunderland -	18.25	1.0493	20.94	21.97	1156
London -	17.97	1.0656	20.64	21.99	1157
Swansea -	17.53	1.0924	20.41	22.30	1173
Birmingham -	17.33	1.1050	20.39	22.53	1185
Wolverhampton -	18.30	1.0464	21.54	22.54	1186
Sheffield -	17.22	1.1120	20.83	23.16	1218
Burnley -	16.67	1.1487	20.40	23.43	1233
Blackburn -	17.05	1.1231	21.66	24.33	1280
Oldham -	16.72	1.1453	22.02	25.22	1327
Bolton -	16.90	1.1331	22.77	25.80	1357
Preston -	17.42	1.0993	24.12	26.52	1395
Manchester -	16.90	1.1331	23.79	26.96	1418
Liverpool -	17.26	1.1094	24.73	27.44	1443
Salford -	17.03	1.1244	24.63	27.69	1457

* The Standard Death-rate signifies the death-rate at all ages calculated on the hypothesis that the rates at each of twelve age-periods in each town were the same as in England and Wales during the ten years 1881-90, the Death-rate at all ages in England and Wales during that period having been 19.15 per 1,000.

† The Factor for Correction is the figure by which the Recorded Death-rate should be multiplied in order to correct for variations of sex and age distribution.

‡ The Corrected Death-rate is the Recorded Death-rate multiplied by the Factor for Correction.

§ The Comparative Mortality Figure represents the Corrected Death-rate in each town compared with the Recorded Death-rate at all ages in England and Wales in 1892, taken as 1000.

It may naturally be asked, of what use are the general death-rates, as ordinarily given, if they cannot be accepted without further and considerable correction. In the first place, if the death-rate in any given town or other area in one year be

compared with its death-rates in other years no correction is required ; for the age and sex distribution in an individual town or other area, if it changes, changes so slowly, that it may be considered as practically constant ; and, secondly, although it is doubtlessly true that the general death-rates of towns or other areas cannot safely be used for accurate comparison between such towns or areas in respect of healthiness without further correction, yet they serve as a very valuable approximate indication ; for if the column 3 be compared with column 4, it will be seen that whether the towns be arranged according to their recorded, or according to their corrected, death-rates, the order will scarcely be changed. The correction alters the amount of difference between the towns, but, with some few exceptions such as Norwich, Brighton, and Bradford, leaves the position in which they stand to each other much as it was before.

Particulars of the mortality in 1892 in the thirty-three great towns are given in Tables 1 to 4. As, however, there were only twenty-eight of these towns included in the previous Weekly Returns and Annual Summaries, five having been added in 1892, the average decennial rates with which the mortality of 1892 is compared (Table 3) are computed from those twenty-eight towns alone.

There were 120 deaths in the thirty-three towns from *small-pox*. Of these, 41 were registered in London, 17 in Halifax, 14 in Oldham, 13 in Liverpool, 8 each in Leeds and Sheffield, and 6 in Leicester. Relatively to population, the highest mortality from this disease was in Halifax, and after this in Oldham, Leicester, and Liverpool, but rates on such small numbers are of little value. The rates from *small-pox*, *scarlet fever*, *fever*, and *diarrhœa* were each considerably below the average, and to a less extent that from *whooping-cough*, while the mortality from *measles* and from *diphtheria* was in excess.

The mortality from *measles* was 0·69 per 1000, the average rate in the ten preceding years having been 0·63, but varied from 0·05 in Blackburn and 0·06 in Preston, to 1·03 in Brighton, 1·05 in Oldham, and 1·53 in Salford.

The mortality from *scarlet fever*, which had averaged 0·36 in the previous ten years, was 0·25 per 1000, but varied from 0·04 in Wolverhampton, 0·06 in Norwich, and 0·07 in Croydon, Brighton, Derby, and Burnley, to 0·59 in Swansea, 0·62 in Cardiff, and 0·68 in Preston.

The mortality from *diphtheria* rose from an average in the preceding ten years of 0·20 to 0·27 per 1000, but varied from 0·01 in Blackburn, 0·05 in Wolverhampton, and 0·06 in Hull and Gateshead, to 0·35 in West Ham and in Croydon, and 0·44 in London.

The mortality from *whooping-cough*, which had averaged 0·62 in 1882–91, fell in 1892 to 0·57, varying, however, from 0·05 in Plymouth, 0·11 in Halifax and 0·19 in Brighton, to 0·86 in Preston, 0·93 in Bolton, 0·94 in Wolverhampton, and 0·97 in Salford.

The mortality from *continued fevers* fell from 0·25 in 1882–91 to 0·15 in 1892, ranging from 0·05 in Croydon, 0·06 in Huddersfield, and 0·07 in Brighton and Newcastle, to 0·41 in Salford, and 0·43 in Sunderland.

The mortality from *diarrhœa*, which had averaged 0·88 per 1000 in 1882–91, was 0·70 in 1892, the highest rates being 1·05 in Cardiff and Sheffield, 1·09 in Leeds, 1·14 in Leicester, 1·25 in Bolton, and 1·80 in Preston.

The highest rates from these seven zymotic causes in the aggregate were 3·06 in Sheffield, 3·10 in Bolton, 3·87 in Preston, and 4·58 in Salford.

The infantile death-rate, or proportion of deaths of infants in the first year of life to 1000 registered births, was 164, but ranged from 123 in Croydon and 137 in Plymouth to 192 in Burnley, 196 in Leicester, 198 in Blackburn, and 216 in Preston.

LONDON.

MARRIAGES.

The marriages in London in the year 1892 numbered 37,175, and the proportion of persons married to the total population was 17·4 per 1,000.

BIRTHS.

The births registered in the 52 weeks numbered 131,535, being in the proportion of 30·9 annually to 1000 of the estimated population. This is the lowest birth-rate as yet recorded in London, with the single exception of the year 1890, when the rate was only 30·7. The natural increment, or excess of births over deaths, was 43,786, the average in the preceding five years having been 48,752.

DEATHS.

The deaths registered in the 52 weeks numbered 87,749, being in the proportion of 20·6 per 1000 living. This rate was an improvement upon those of the two next preceding years, 1890 and 1891, in which it had been 21·4 and 21·1 respectively, but with these exceptions was higher than for some years previously; the rates for these three successive years having been raised considerably by the outbreaks of influenza.

Among the 87,749 deaths were 1666 of persons who died outside the boundaries of Registration London in certain institutions for the reception of the inhabitants of London. These deaths were, of course, properly included; but on the other hand, the deaths of strangers who coming into London for medical advice die there should with equal fitness be excluded. This, however, can only be done in the case of those who die in the wards of the London Hospitals and Infirmarys, owing to the lack of information concerning those strangers who die in private houses. The strangers who died in the Hospitals and Infirmarys numbered 1394, and, excluding these, the deaths were 86,355, and the death-rate 20·3 per 1000. (Tables G. & H.) Such correction is, of course, very imperfect. In London, and in all great towns, many persons, when they become old and enfeebled, or when they are attacked by illness, withdraw into the country, often returning to the rural districts from which they originally came, and this constant weeding out of the decrepit and the sickly must of necessity tend to lower the death-rates in the towns and raise those in the rural districts, thus increasing the differences of mortality which, as already shown, are brought about by the differences in the age and sex distribution of the urban and rural populations.

The following table shows in a summary form the amount of life saved and the amount lost in the year 1892, as compared with the preceding decennium, under each of the more important headings in the list of causes.

TABLE B.—DIMINUTION OR EXCESS OF DEATHS IN 1892, COMPARED WITH ANNUAL DEATHS IN 1882-91, CORRECTED FOR INCREASE OF POPULATION.

CAUSE OF DEATH.	Diminution in 1892.	Excess in 1892.
Small-pox - - - - -	303	—
Measles - - - - -	—	791
Scarlet Fever - - - - -	60	—
Typhus - - - - -	14	—
Influenza - - - - -	—	1,945
Whooping-cough - - - - -	524	—
Diphtheria - - - - -	—	712
Simple Fever - - - - -	44	—
Enteric Fever - - - - -	304	—
Diarrhœal Diseases - - - - -	513	—
Cancer - - - - -	—	204
Phthisis and other Tubercular Diseases - - - - -	933	—
Premature Birth - - - - -	—	310
Diseases of Nervous System - - - - -	952	—
Diseases of Circulatory System - - - - -	—	560
Diseases of Respiratory System - - - - -	—	392
Diseases of Urinary System - - - - -	—	29
Childbirth and Puerperal Fever - - - - -	—	114
Accident - - - - -	—	59
Homicide - - - - -	10	—
Suicide - - - - -	—	56
All other Causes - - - - -	796	—
	4,453	5,172
Balance of Diminution or Excess - - - - -	—	719

The net loss in the year amounted to 719 lives, that is to say, had the death-rate in the year been only equal to the average in the preceding decennium, 719 fewer persons would have died in London than was actually the case.

The excess was under many headings, some of which, as diphtheria, cancer, premature birth, diseases of the organs of circulation and of the urinary system, have shown similar excesses for many successive years, and appear, therefore, to be persistently increasing. Of one of these causes, moreover, namely, premature birth, it is to be noted that the increase of mortality, which has gone on year by year in almost unbroken succession, has occurred in spite of a diminishing birth-rate. But there are other headings under which the increase has not been constant, and is therefore

attributable to comparatively temporary causes. Such is measles, under which the excess was 791; the mortality from this disease having also been in excess in six out of the ten preceding years, thus contrasting strongly with scarlet fever, which has shown diminution, not only in 1892, but in every one of the ten preceding years. But the heading under which by far the largest excess occurred is influenza, the deaths from this disease exceeding the average by 1,945, and this although in that average are included the two years 1890 and 1891, in both of which there were severe outbreaks of this epidemic.

The deaths directly ascribed to influenza in 1892 were 2,264, having been 2,336 in 1891 and 652 in 1890, the total, therefore, in the three years being 5,252, whereas in the ten preceding years, 1880-89, it had been only 63. But these 5252 deaths by no means represent the whole mortality caused by these successive outbreaks. A large number of deaths really due to influenza are certified under other names, and especially under bronchitis and pneumonia, and the deaths under these two headings in the three years numbered 56,070, whereas according to the previous decennial average they should have been only 47,120. What has been spoken of as three successive outbreaks would more accurately be described as a single outbreak with three periods of exacerbation; for there was scarcely a week, and no succession of two weeks, in the three years without some deaths from this disease. In 1890 the period of maximum intensity was in January, in 1891 it was in May and June, in 1892 it was in January and February; the mortality having risen almost suddenly in the first week of the year, having reached its maximum in the third week, and then gradually subsided.

Under *measles* were registered 3393 deaths, or 0·80 per 1000 living, while the average rate in the previous decennium had been 0·61, which would have given 2602 deaths in 1892; there was thus an excess under this heading of 791 deaths over the average. In London, as was shown diagrammatically in the Annual Summary for 1890, the curve of mortality from measles shows a double wave, one rising to its maximum between April and June, the other in December. The curve in 1892 presented the same form, but the excess above noted was in the summer wave, not in the winter wave.

The deaths from *scarlet fever* were 1174, or 0·28 per 1000 living, while the average rate in the previous decennium had been 0·29, a difference which implies a saving of 60 lives from this disease in 1892. This was the twelfth successive year in which the mortality from this disease was below the previous decennial average. Of the 1174 deaths 807, or 69 per cent. occurred in public hospitals or infirmaries.

The deaths ascribed to *diphtheria* numbered 1,885, or 0·44 per 1000 living, this being the highest rate as yet recorded, the next highest having been 0·39 in 1889. The rates in the last five years 1888-92, were all higher than that of any previous year (Table 12). Part of the excess in 1892 may be attributed with much probability to the decrease under croup, but not all; for the deaths under the two headings taken together amounted to 2162, whereas the decennial average, after due correction for growth of population, would have given only 1816.

The following Table shows the number of deaths from *diphtheria* for each of the last six years in each sanitary area, after due distribution of the deaths in public institutions.

TABLE C.—DEATHS from DIPHTHERIA in the METROPOLITAN SANITARY AREAS in the SIX YEARS 1887 to 1892, after Distribution of those occurring in Hospitals.

Sanitary Area.	Enumerated Population 1891 (un- revised).	1887.	1888.	1889.	1890.	1891.	1892.
Paddington	117,838	29	76	42	40	24	28
Kensington	166,321	40	91	111	34	28	34
Hammersmith	97,237	44	38	45	49	73	73
Fulham	91,640	19	10	12	22	19	31
Chelsea	96,272	19	14	24	56	16	39
St. George Hanover Square	78,362	13	46	30	13	20	26
Westminster	55,760	25	37	23	9	11	44
St. James Westminster	24,993	3	5	2	3	7	6
Marylebone	142,381	14	23	34	27	26	48
Hampstead	68,425	13	16	8	21	13	27
Paneras	234,437	62	72	62	132	71	107
Islington	319,433	46	50	63	81	158	150
Hackney	229,531	40	76	97	67	79	131
St. Giles	39,778	23	11	17	10	13	21
St. Martin-in-the-Fields	14,574	5	3	2	1	4	12
Strand	25,201	10	3	8	4	5	8
Holborn	33,248	9	5	17	18	9	17
Clerkenwell	65,885	17	26	24	19	23	28
St. Luke's	42,411	12	10	13	16	12	14
London City	38,345	5	11	12	11	13	24
Shoreditch	124,009	27	32	69	58	65	44
Bethnal Green	129,134	27	52	102	116	61	117
Whitechapel	74,462	6	24	34	51	54	59
St. George-in-the-East	45,516	15	15	43	30	19	33
Stepney	57,599	14	25	47	28	16	25
Mile End Old Town	107,565	22	20	53	44	37	81
Poplar	168,697	30	42	64	70	55	78
St. Saviour Southwark	27,162	8	13	12	5	11	6
St. George Southwark	59,712	12	23	20	14	18	26
Newington	115,663	27	18	55	32	44	38
St. Olave Southwark	12,694	2	4	1	4	5	3
Bermondsey	84,688	16	14	23	19	16	20
Rotherhithe	39,074	6	8	16	8	4	11
Lambeth	275,202	105	107	156	76	78	130
Battersea	150,458	51	27	33	40	70	54
Wandsworth	156,981		65	44	22	36	65
Camberwell	235,312		65	70	51	47	78
Greenwich	165,417	37	34	30	47	46	52
Lewisham (excluding Penge)	65,112	11	31	5	15	8	20
Woolwich	40,848	3	3	6	5	2	4
Plumstead	95,699	1	24	18	19	9	44

The deaths from *whooping-cough*, 2477 in number, were in the proportion of 0·58 per 1060, the previous decennial average having been 0·71. There was, thus, a saving of 524 lives under this heading.

Eleven deaths were ascribed to *typhus*, 436 to *enteric fever*, and 20 to *simple or ill-defined forms of continued fever*. This gives a total of 467 deaths from continued fevers in the aggregate, a smaller number, actually as well as relatively to the population, than in any earlier year. The rate per 1000 from these fevers was 0·11 while the average annual rate in the previous decennium was 0·20, or nearly double that of 1892.

The deaths registered in the year from *diarrhœa* were 2546, or 0·60 per 1000 living, while the average annual rate in the preceding decennium had been 0·72. This decline is attributable to the comparatively cold weather which prevailed in July, and arrested the ordinary summer outbreak that had as usual begun in the month of June.

No death in the year was registered as due to *hydrophobia*, this being the first occasion since 1872 when such an occurrence had been noted, London and Lancashire being the two special centres of this disease. Under *glanders*, however, 4 deaths were registered, and this also, like hydrophobia, appears to be a specially London disease; for of the 138 deaths from glanders registered in England and Wales from 1858, in which year this heading first appeared in the Annual Reports, down to 1891 inclusively, no fewer than 76, or 55 per cent., occurred in London, whereas its proper share, in proportion to population, should have been 20, or only 14 per cent.

Glanders, like hydrophobia, is, for easily understood reasons, much more common among males than among females; but while hydrophobia is more common among children than among adults, the contrary is the case with glanders, as the following table shows:—

TABLE D.—AGE and SEX of 138 FATAL CASES of GLANDERS in ENGLAND and WALES, 1858–91.

—	ALLAGES.	0—	5—	10—	15—	20—	25—	35—	45—	55—	65—75
Males - -	127	—	—	3	9	10	25	28	29	18	5
Females - -	11	1	—	—	3	1	3	—	3	—	—
Total - -	138	1	—	3	12	11	28	28	32	18	5

The deaths from *violence* were 3230, and, after allowing for growth of population, exceeded the previous decennial average by 109. The excess was partly under accident, to which were ascribed 2707 deaths, whereas there should by the corrected average have been only 2648; and partly under suicide, to which 450 deaths were due, being in the proportion of 106 to a million living, and more numerous in proportion to population than in any previous year for which we have figures.

The deaths ascribed to accidents with vehicles or horses were 269, which, after allowing for increase of population, is practically equal to the average of the preceding ten years. Probably among the many deaths simply returned as due to “fracture” there were not a few in which the fracture was caused by a carriage accident; but as regards the 269 of which sufficient information was given for

their proper classification, the following Table gives particulars as to the kind of vehicle which caused the death, and it will be noted that as usual the chief offenders were the vans and waggons.

TABLE E.

Year.	Description of Vehicle, &c.								TOTAL.
	Horse, &c.	Carriage.	Omnibus.	Tram-car.	Cab.	Cart.	Van, wagon, dray.	Others, and not described.	
1873	13	10	12	17	28	56	79	2	217
1874	28	11	17	14	33	36	67	5	211
1875	11	15	18	9	39	55	82	2	231
1876	13	4	17	12	24	56	84	7	217
1877	16	13	13	4	26	56	97	2	227
1878	17	12	14	10	34	63	84	3	237
1879	16	13	17	18	36	57	74	5	236
1880	12	11	20	17	39	43	76	2	220
1881	13	14	21	23	31	58	88	4	252
1882	12	15	19	23	37	60	100	5	271
1883	6	12	16	25	57	45	57	4	222
1884	12	11	33	18	57	51	74	9	265
1885	12	20	14	11	55	55	89	10	266
1886	10	7	21	9	39	49	111	5	251
1887	13	7	18	19	51	49	85	9	251
1888	5	15	25	9	41	47	91	4	237
1889	15	10	29	12	52	40	83	13	254
1890	3	11	22	18	43	44	109	20	270
1891	9	10	18	12	35	38	111	11	244
1892	17	15	26	11	44	47	101	8	269

Of the 2707 deaths attributed to *accident*, 605 or not far from one quarter of the whole, were deaths of infants under one year of age from suffocation in bed. There were 67 deaths from homicide, of which 37 also were of infants under one, while there were against these 67 deaths from murder or manslaughter, 6 deaths of murderers by execution.

Deaths in Workhouses, Hospitals, and Public Lunatic and Imbecile Asylums.—

Of the 87,749 deaths registered in the 52 weeks of 1892, 22,260, or 25·4 per cent. occurred in public institutions. This total per-centage of 25·4 was made up of—

12·8 per cent. in workhouses and workhouse infirmaries.

1·9 „ „ in Metropolitan Asylum Hospitals.

8·8 „ „ in other hospitals.

1·9 „ „ in public lunatic or imbecile asylums.

Thus about 1 in every 8 deaths, occurred in a workhouse or infirmary, 1 in 53 in a Metropolitan Asylum Hospital, 1 in 11 in some other hospital, and 1 in 52 in a public lunatic or imbecile asylum.

TABLE F.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
Deaths in Public Institutions - -	18,630	18,109	18,255	18,858	18,869	21,881	23,052	22,260
Workhouses and Workhouse Infirmaries* - - - - - }	9,512	9,703	9,285	9,603	9,503	11,263	12,473	11,238
Metropolitan Asylum Board Hospitals (in or out of London) - - - - - }	1,248	248	624	683	729	1,019	973	1,650
Other Hospitals - - - - -	6,592	6,769	6,972	7,093	7,054	7,717	8,008	7,686
Lunatic and Imbecile Asylums† -	1,278	1,384	1,374	1,479	1,583	1,882	1,598	1,686

* Including the Strand Union Workhouse at Edmonton, and the Holborn Union Workhouse at Mitcham.

† Including the City of London, London County, and Metropolitan Lunatic and Imbecile Asylums situated outside Registration London.

It will be seen in the above Table that the deaths in workhouses or workhouse infirmaries in 1890, 1891, and 1892 far out-numbered those in any of the five preceding years. It must not, however, be inferred that this necessarily implies a large increase in the number of persons receiving indoor relief. The increased proportion of workhouse deaths was due, in great measure if not entirely, to the fact that the occupants of the workhouses consist in the main of persons of those ages upon which the influenza outbreaks of 1890-92 fell with the heaviest hand; the proportion of inmates under 20 years of age in these institutions being much smaller than in the general population. This explanation of the great excess of workhouse mortality is confirmed by an examination of the successive weekly returns, which show that the excess in each year occurred in those weeks in which the outbreaks were most severe. The remarkable increase of deaths in the Metropolitan Asylum Hospitals, the number of which rose from 973 in 1891 to 1650 in 1892, was due to scarlet fever and diphtheria, the deaths among patients admitted for scarlet fever having risen from 271 to 880, and the deaths among those admitted for diphtheria from 421 to 610; while the aggregate deaths from all other causes fell considerably.

Mortality in different parts of London.—The distribution of the registered mortality in London is seriously affected by the hospitals and other public institutions. For purposes of fair comparison between one district, or one group of districts, and another, it is necessary to make correction for this disturbing element. The following Table has, therefore, been constructed, in which the deaths in public

institutions have been transferred to the districts from which the deceased had been admitted, and certain other corrections have been made as explained in the note to the Table.

TABLE G.—DEATHS BELONGING to the SEVERAL SANITARY AREAS of REGISTRATION LONDON, registered in the 52 WEEKS of 1892.

SANITARY AREAS.	Deaths.	Deaths from Principal Zymotic Diseases.									Deaths of Infants under 1 Year of Age.	Deaths under 1 Year to 1000 Births registered.
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-defined Fever.	Diarrhoea.		
REGISTRATION LONDON	89,355	29	3,338	1,167	1,356	2,475	11	424	20	2,536	20,282	154
WEST.												
Paddington	2,123	-	90	21	28	29	-	8	-	72	417	142
Kensington	2,927	-	112	37	34	64	-	15	1	64	590	159
Hammersmith	1,969	-	133	13	73	54	-	4	3	70	488	167
Fulham	1,963	-	128	29	31	65	-	1	1	93	579	166
Chelsea	1,938	1	106	27	89	39	-	6	-	72	438	165
St. George Hanover Square	1,343	-	49	11	26	21	-	8	-	29	216	142
Westminster	1,297	-	77	18	44	20	-	3	-	22	283	169
St. James Westminster	441	-	17	5	6	7	-	1	-	7	68	129
NORTH.												
Marylebone	3,070	-	137	54	48	37	1	15	-	73	574	132
Hampstead	873	-	25	5	27	22	-	2	-	15	178	122
Pancras	5,147	2	233	67	107	155	-	25	-	140	1,186	166
Islington	6,075	3	179	53	150	161	-	40	1	189	1,417	148
Hackney	4,032	1	102	63	181	122	-	23	1	125	901	133
CENTRAL.												
St. Giles	921	-	47	5	21	11	-	9	-	22	173	153
St. Martin-in-the-Fields	397	-	9	4	12	1	-	-	-	4	86	146
Strand	689	-	53	3	8	15	-	4	-	8	132	229
Holborn	897	-	30	13	17	15	-	4	-	19	187	211
Clerkenwell	1,623	-	46	21	28	45	-	8	-	41	375	172
St. Luke	1,091	4	37	9	14	29	1	2	1	33	270	142
London City	812	-	17	12	24	16	-	5	-	6	110	165
EAST.												
Shoreditch	2,889	4	103	36	44	105	1	13	2	104	740	165
Bethnal Green	2,984	5	136	56	117	128	-	20	-	79	775	158
Whitechapel	1,833	-	65	34	59	43	1	5	-	42	474	165
St. George-in-the-East	1,282	1	62	34	33	24	-	9	-	59	344	183
Stepney	1,456	-	72	28	25	72	-	7	-	37	339	186
Mile End Old Town	2,489	1	67	39	81	110	-	16	-	73	612	133
Poplar	3,764	-	159	64	78	178	-	26	3	109	963	164
SOUTH.												
St. Saviour Southwark	636	-	23	7	6	14	1	1	-	14	158	187
St. George Southwark	1,489	-	69	17	26	44	-	7	1	37	375	174
Newington	2,848	-	182	45	38	93	1	10	1	83	704	172
St. Olave Southwark	345	-	16	3	8	5	-	2	-	11	85	184
Bermondsey	1,935	-	69	30	20	53	1	6	-	44	516	182
Rotherhithe	846	-	44	6	11	22	2	7	-	33	198	150
Lambeth	5,495	1	137	76	54	101	-	22	2	155	1,250	135
Battersea	2,779	1	90	43	54	101	-	10	1	103	814	163
Wandsworth	2,582	-	82	29	65	89	-	13	2	87	620	147
Camberwell	4,512	1	191	63	78	198	-	22	-	145	1,137	155
Greenwich	3,244	1	106	37	52	96	1	23	-	126	801	148
Lewisham (excluding Fenge)	1,107	-	15	3	20	53	1	4	-	29	255	138
Woolwich	815	-	19	11	4	17	-	11	-	25	182	147
Plumstead	1,392	3	23	33	44	38	-	7	-	33	812	110

NOTE.—In the above Table 1,666 deaths in Hospitals and in other Public Institutions (namely the Strand Union Workhouse at Edmonton, the Holborn Union Workhouse at Mitcham, the Metropolitan Asylum Hospitals, and the City of London, London County, and Metropolitan Lunatic and Imbecile Asylums) situated outside Registration London, have been distributed to the sanitary areas from which the deceased inmates were admitted; while the deaths of 1,394 non-residents who died in Public Institutions inside London have been excluded.

If the figures in this Table be taken as the basis, and the rates calculated afresh, on the assumption that the rates of increase or decrease of population between the censuses of 1881 and 1891 in the five great groups of districts have since been maintained, we obtain the following results.

TABLE H.—BIRTH- and DEATH-RATES of Persons *belonging to* LONDON and to its GROUPS of REGISTRATION DISTRICTS, in the 52 weeks of 1892.

		PER 1000 PERSONS LIVING.												Deaths under 1 Year to 1000 Births registered.
		BIRTHS.	Deaths from											
			ALL CAUSES.	Principal Zymotic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and Ill-Defined Fever.	Diarrhoea.	
REGISTRATION LONDON -	30·9	20·3	2·80	0·01	0·80	0·27	0·44	0·53	0·00	0·10	0·00	0·60	154	
West Districts -	26·2	19·1	2·61	0·00	0·95	0·22	0·38	0·41	-	0·06	0·01	0·58	168	
North Districts -	29·2	19·2	2·53	0·01	0·67	0·24	0·46	0·50	0·00	0·10	0·00	0·55	145	
Central Districts -	29·9	25·1	2·88	0·02	0·94	0·26	0·49	0·52	0·00	0·13	0·00	0·52	169	
East Districts -	37·1	23·6	3·78	0·02	0·93	0·41	0·62	0·94	0·00	0·14	0·01	0·71	163	
South Districts -	31·7	19·3	2·61	0·00	0·72	0·26	0·35	0·57	0·00	0·09	0·00	0·62	151	

In this Table, 0·00 indicates that the deaths were too few to give a rate of 0·005; when *no death* occurred, — is inserted.

Uncertified Causes of Death.—Of the 87,749 deaths registered in London, the causes of 804, or 0·9 per cent., were not certified either by a registered medical practitioner or by a coroner (Tables 1 and 2); this is the lowest proportion recorded in any year. In the thirty-two large provincial towns in the aggregate the proportion of uncertified deaths was 2·8 per cent.; but while there was no uncertified death in Croydon, and the proportion was only 0·5 per cent. in Birkenhead and 0·7 in Burnley, it reached 4·5 per cent. in Halifax, 4·7 in Liverpool, and 5·3 in Birmingham. Halifax and Liverpool had also shown excessive proportions in each of the preceding five years.

GREATER LONDON.—The estimated population of Greater London, which is co-extensive with the Metropolitan and City Police Districts, was 5,752,204 in the middle of 1892. The mortality in this population was 19·3 per 1000, the rates in the preceding three years having been successively 17·3, 20·1, and 19·8, and the average for the three years 19·1. The mortality differed vastly in the two constituent parts of Greater London, namely, Inner or Registration London and the Outer Ring. In the former it was, as already shown (page vii), 20·6; while in the latter it was only 15·6. The death-rate from the principal zymotic diseases was 2·64 in Greater London, but while it was 2·82 in Inner London, it was 2·14 in the Outer Ring; compared with the rates in the preceding three years these rates showed an increase of 13 per cent. in Greater London, of 11 per cent. in Inner London, and of 18 per cent. in the Outer Ring. Infant mortality, measured by the proportion of deaths under one year of age to registered births, was in the proportion of 150 per 1000 in Greater London, against 136, 157, and 147 in the preceding three years. In Registration London the proportion was 155, while in the Outer Ring of suburban districts it was 135.

EDINBURGH, GLASGOW, and DUBLIN.—The death-rate in Edinburgh in 1892 was 19·4 per 1000, against 20·6 in London. In Glasgow the rate was 22·7, while in Dublin it reached 29·3 (Table 5.) In each of these towns the death-rate from measles exceeded 1·0 per 1000, while in Glasgow the mortality from scarlet fever and from whooping-cough was also excessive.

COLONIAL AND FOREIGN CITIES.—A summary of Weekly and other Returns with which the Registrar-General is favoured by the local authorities of the principal European and other Foreign cities, and also of some Colonial cities, shows that the deaths last year in thirty-four cities with an aggregate population of about twenty millions was 25·5 per 1000. Among the Indian cities Madras had the highest rate, namely 46·0, the rates in Calcutta and Bombay being 27·0 and 32·1 respectively. *Small-pox* caused 551 deaths in Bombay, 28 in Madras, and 17 in Calcutta; and *measles* caused 703 deaths in Bombay, 371 in Madras, and 44 in Calcutta. The mortality from "*fever*" was, as usual, high in these cities. In Sydney the death-rate was only 13·5 per 1000. In twenty-two European cities the lowest death-rates were 19·3 in Christiania, 19·6 in Berlin, 19·9 in Copenhagen, and 20·0 in Amsterdam and in Stockholm; while the highest were 28·5 in Prague, 30·0 in Trieste, 36·9 in Moscow, and 39·7 in Hamburg. In Paris the rate was 22·4 and in Vienna 24·3. *Small-pox* caused 349 deaths in Prague and 228 in Moscow. The mortality from *measles* showed excess in Copenhagen, Moscow, Hamburg, and Vienna; from *scarlet fever* in Rotterdam, Stockholm, Moscow, and Buda-Pesth; from *diphtheria* in Paris, Copenhagen, Stockholm, Moscow, and Milan, and in all the German and Austrian cities from which returns are received; from *whooping-cough* in Copenhagen, Christiania, and Hamburg; and from "*fever*" in Moscow, Hamburg, Prague, Venice, Milan, Turin, and Rome (the fever in the last-named town being mostly of the malarial type). The mortality from *diarrhaal diseases* (including *cholera*) was excessive in all the twenty-two towns excepting Amsterdam, Rotterdam, the Hague, Prague, and Trieste. In Hamburg the death-rate from these diseases alone was 18·0 per 1000 of the estimated population. In Cairo and Alexandria the death-rates from all causes were 47·0 and 41·3 respectively; the high mortality in both towns being largely due to *diarrhaal diseases*. *Small-pox* caused 71 deaths in Cairo and 138 in Alexandria, and "*fever*" caused 612 deaths in Cairo and 177 in Alexandria. Among the American cities the death-rates ranged from 21·6 in Brooklyn to 29·4 in New Orleans. The mortality from *diphtheria* and from *diarrhaal diseases* was high in all these cities, and that from *scarlet fever* in all excepting New Orleans; *small-pox* and *measles* were in excess in New York, and "*fever*" in Philadelphia, Baltimore, and New Orleans.

The DEATHS registered in the 53 Weeks include—																					
CITIES AND BOROUGHES.	POPULATION. Estimated to the middle of 1892.*	Persons to an Acre.	BIRTHS.	DEATHS.	Deaths of		Deaths from										MEAN TEMPERATURE. (Inches).	RAIN-FALL (Inches).	CITIES AND BOROUGHES.		
					Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Principal Zymotic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhoea.	Violence.	Inquest Cases.				Deaths in Public Institutions.	Unrecorded Causes of Death.
Cols.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.
33 TOWNS.	10,188,449	34.8	324,190	206,985	530,19	481,83	268,42	120	69,75	24,95	2,770	5,799	16,03	71,80	74,05	142,04	38,472	41,80	46.3	27.57	33 TOWNS.
LONDON†	4,283,294	57.1	131,535	87,749	203,59	218,26	119,83	41	33,93	11,74	1,885	2,477	4,07	25,43	33,30	6,881	22,260	804	48.1	22.33	LONDON†
WEST HAM.	217,113	40.3	8,013	4,027	12,22	7,81	631	—	1,99	69	76	101	21	1,65	1,06	152	342	108	—	—	WEST HAM.
CROYDON.	106,152	11.8	2,803	1,674	3,44	524	290	—	58	7	37	53	6	34	31	107	213	—	—	—	CROYDON.
BRIGHTON.	116,424	46.3	23,98	22,32	44,7	7,55	248	—	119	8	23	22	8	68	55	81	329	62	48.4	26.82	BRIGHTON.
PORTSMOUTH.	163,667	37.9	4,676	3,013	712	892	306	—	40	17	27	88	43	91	81	160	415	29	48.2	23.57	PORTSMOUTH.
PLYMOUTH.	85,610	58.3	2,483	1,604	3,40	529	145	—	18	44	8	4	18	62	44	91	188	18	—	—	PLYMOUTH.
BRISTOL.	225,592	48.3	6,638	4,340	9,72	11,99	4,61	—	103	45	31	164	4	11	13	139	312	772	47.0	20.14	BRISTOL.
CARDIFF.	136,181	18.5	4,789	2,559	7,52	4,07	392	—	60	84	35	43	26	143	138	220	311	40	—	—	CARDIFF.
SWANSEA.	92,344	15.5	3,538	1,880	5,67	3,70	232	—	29	64	10	73	24	42	50	104	122	41	—	—	SWANSEA.
WOLVERHAMPTON.	83,519	24.6	2,805	1,794	4,83	4,09	195	—	40	3	4	78	17	53	62	115	263	25	44.4	26.76	WOLVERHAMPTON.
BIRMINGHAM.	463,236	39.1	10,075	6,834	29,61	21,71	1213	—	363	68	74	276	38	394	326	341	1,624	519	45.9	31.44	BIRMINGHAM.
NORWICH.	162,736	18.1	31,24	20,49	5,68	7,25	1,62	—	19	6	16	37	20	64	38	115	198	36	45.9	21.44	NORWICH.
LEICESTER.	180,096	45.2†	5,782	3,261	11,32	6,85	4,63	—	120	40	12	52	17	206	83	193	399	94	45.6	21.57	LEICESTER.
NOTTINGHAM.	215,536	21.6	6,315	4,023	10,95	10,55	4,88	—	118	44	22	120	32	152	147	224	564	88	45.6	21.57	NOTTINGHAM.
DERBY.	95,968	27.8	2,978	1,751	5,16	4,01	178	—	19	7	20	61	8	63	64	155	212	21	—	—	DERBY.
BIRKENHEAD.	101,954	26.3	3,978	1,979	5,69	3,90	229	—	64	10	8	62	26	58	72	186	235	10	—	—	BIRKENHEAD.
LIVERPOOL.	513,790	98.6	17,758	12,672	32,09	21,42	14,08	—	456	131	56	268	131	413	747	914	2,130	594	46.6	33.12	LIVERPOOL.
BOLTON.	116,266	48.4	3,736	2,640	7,01	5,00	359	—	82	30	13	103	22	144	75	182	246	31	—	—	BOLTON.
MANCHESTER.	110,698	48.0	17,190	12,121	3,07	22,19	15,15	—	372	135	102	368	129	407	426	942	2,295	239	—	—	MANCHESTER.
SALFORD.	90,588	38.9	3,893	2,463	13,81	813	919	—	306	83	55	189	52	199	152	287	715	152	—	—	SALFORD.
OLDHAM.	124,922	28.4	3,893	2,463	6,89	5,69	350	—	14	14	16	65	17	69	73	168	304	48	—	—	OLDHAM.
BURNLEY.	30,690	22.6	1,847	964	7,92	5,64	1,61	—	13	6	9	5	13	62	132	12	12	88	—	—	BURNLEY.
BLACKBURN.	192,858	17.5	3,888	2,641	7,98	6,11	270	—	6	16	1	97	35	116	82	116	284	98	—	—	BLACKBURN.
PRESTON.	108,638	27.1	3,725	2,623	8,05	5,73	421	—	6	74	15	15	36	197	45	67	197	100	—	—	PRESTON.
HUDDESFIELD.	96,599	8.9	2,314	1,789	3,82	4,78	143	—	1	66	18	7	28	6	17	44	62	140	66	—	HUDDESFIELD.
HALIFAX.	84,097	21.73	1,636	947	3,47	4,93	138	—	17	67	8	17	9	19	47	63	210	74	44.1	84.59	HALIFAX.
BRADFORD.	219,292	20.73	5,953	3,928	9,92	9,92	963	—	37	44	15	95	19	120	109	219	446	96	45.9	29.24	BRADFORD.
LEEDS.	375,540	16.73	12,548	7,940	21,17	16,59	813	—	73	74	30	159	62	407	238	523	786	70	46.3	27.88	LEEDS.
SHEFFIELD.	299,585	16.73	11,858	6,845	13,80	12,98	1,063	—	8	73	79	33	98	346	183	370	813	293	—	—	SHEFFIELD.
HULL.	204,750	25.79	71,146	40,13	11,85	8,69	241	—	24	62	12	114	34	205	143	235	457	160	45.7	28.08	HULL.
SUNDERLAND.	132,639	43.8	4,909	2,774	7,70	5,33	988	—	131	57	9	97	37	87	106	239	277	80	—	—	SUNDERLAND.
GATESHEAD.	88,538	28.4	3,115	1,671	4,81	3,82	152	—	30	22	5	23	1	9	72	144	69	53	—	—	GATESHEAD.
NEWCASTLE.	192,205	35.8	6,574	3,777	9,90	7,22	315	—	68	26	43	82	13	57	151	314	624	52	45.8	23.26	NEWCASTLE.

* These estimates are based upon the unrevised numbers enumerated at the Census in April 1891.

† For the purposes of these Tables, LONDON includes the Strand Union Workhouse at Edmonstone, the Holborn Union Workhouse at Mifham, the City of London Asylum at Stone, and the Metropolitan Hospitals and Asylums situated outside Registration London. Several of the provincial towns have been similarly corrected by the addition of deaths occurring in Public Institutions situated beyond their limits.

TABLE 2.—33 Towns.—Birth-, and Death-rates, and Analysis of Mortality, in the 52 Weeks of 1892.

In this Table, 0·00 indicates that the deaths were too few to give a rate of 0·005; when no death occurred — is inserted.

CITIES AND BOROUGHES.	Cols.	ANNUAL RATES PER 1000 PERSONS LIVING.																DEATHS under 1 Year to 1000 Births.	ANNUAL RATE per 1000 living.		PERCENTAGE to Total Deaths.		CITIES AND BOROUGHES.
		Deaths from																	Inquest Cases.	Deaths in Public Institutions.	Uncertified Deaths.		
		Total Deaths.																					
		Births in 12 Weeks ending 31st Dec. 1892.	28th Dec. 1889.	3rd Jan. 1891.	2nd Jan. 1892.	31st Dec. 1892.	52 or 53 Weeks ending	Principal Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping Cough.	Fever.	Diarrhoea.	Violence.							
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.	20.	Cols.			
33 TOWNS*.	31·9	20·3*	22·6*	22·5*	20·7	2·64	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	33 TOWNS*.			
LONDON†	30·9	18·3	21·5	21·4	20·6	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	2·82	LONDON†			
WEST HAM*	37·0	—	—	—	18·6	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	2·91	WEST HAM*			
CROYDON*	26·5	16·1	19·1	18·2	18·2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	CROYDON*			
BRIGHTON*	25·5	16·7	17·9	19·0	18·5	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	BRIGHTON*			
PORTSMOUTH	28·0	16·7	17·9	19·0	18·5	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	1·87	PORTSMOUTH.			
PLYMOUTH	29·1	23·8	21·1	22·5	20·9	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	PLYMOUTH.			
BRISTOL	29·6	18·4	20·2	20·9	18·5	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	2·07	BRISTOL.			
CARDIFF	36·3	18·4	19·5	22·1	18·8	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	2·89	CARDIFF.			
SWANSEA*	35·2	—	—	—	20·4	2·52	—	—	—	—	—	—	—	—	—	—	—	—	—	SWANSEA*.			
WOLVERHAMPTON	33·7	20·9	22·2	24·2	21·5	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	2·34	WOLVERHAMPTON			
BIRMINGHAM	33·3	20·1	22·4	22·2	20·6	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	2·58	BIRMINGHAM.			
NORWICH	30·5	17·6	20·1	19·3	20·4	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	1·58	NORWICH.			
LEICESTER	32·2	18·4	19·7	19·5	18·2	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	2·52	LEICESTER.			
NOTTINGHAM.	29·4	19·5	18·2	19·9	18·7	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	2·67	NOTTINGHAM.			
DERBY	31·1	17·6	20·1	19·1	18·3	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	1·86	DERBY.			
BIRKENHEAD	33·4	18·9	21·1	20·9	19·6	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	2·27	BIRKENHEAD.			
LIVERPOOL	34·7	25·0	27·8	27·0	24·7	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	2·87	LIVERPOOL.			
BOLTON	32·7	22·3	26·1	21·4	22·8	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	3·10	BOLTON.			
MANCHESTER	33·7	26·1	27·6	26·5	23·8	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	2·97	MANCHESTER.			
SALFORD	35·9	24·7	27·6	26·7	24·6	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	4·58	SALFORD.			
OLDHAM	29·1	22·8	24·0	25·7	22·0	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	2·61	OLDHAM.			
BURNLEY*	34·2	26·4	27·4	28·8	24·7	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	BURNLEY*.			
BLACKBURN	31·9	26·4	27·4	28·8	24·7	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	1·78	BLACKBURN.			
PRESTON	34·3	27·6	27·0	27·3	24·1	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	3·87	PRESTON.			
HUDDERSFIELD.	23·0	19·7	20·0	23·0	18·1	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	1·48	HUDDERSFIELD.			
HALIFAX.	25·0	19·5	22·4	22·8	19·5	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	1·65	HALIFAX.			
BRADFORD.	27·2	21·2	22·5	22·2	18·0	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	1·68	BRADFORD.			
LEEDS.	33·3	21·5	25·3	22·5	19·8	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	LEEDS.			
SHEFFIELD.	33·3	21·7	25·3	22·5	19·8	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	2·17	SHEFFIELD.			
HULL.	35·0	21·7	25·0	21·0	19·6	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	HULL.			
SUNDERLAND	37·1	23·9	25·0	25·0	19·6	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	2·63	SUNDERLAND.			
GATESHEAD*.	35·3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	GATESHEAD*.			
NEWCASTLE.	34·3	22·7	23·1	23·8	19·7	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	1·64	NEWCASTLE.			

* The Registrar General has no means of determining the mortality statistics relating to recent corresponding periods for the five towns added to this list at the commencement of 1892. The death-rates in columns 2, 3, and 4 relate only to the 23 towns for which statistics were published in previous Annual Summaries.

† See note (f) to Table 1.

TABLE 3.—33 Towns.—Death-rates per 1,000 living from All Causes, and from the Principal Zymotic Diseases, and Infant Mortality, in the Ten Years 1882-91, and in 1892.

In this Table 0·00 indicates that the deaths were too few to give a rate of 0·005; when no death occurred, — is inserted.

CITIES AND BOROUGHES.	ALL CAUSES.		SMALL-POX.		MEASLES.		SCARLET FEVER.		DIPHTHERIA.		WHOOPING- COUGH.		FEVER.		DIARRHŒA.		DEATHS UNDER ONE YEAR TO 1000 BIRTHS.		CITIES AND BOROUGHES.
	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	Ten years 1882-91.	1892.	
33 TOWNS*.	21·6*	20·7	0·05*	0·01	0·63*	0·69	0·36*	0·25	0·20*	0·27	0·62*	0·57	0·25*	0·15	0·88*	0·70	163*	164	33 TOWNS*.
LONDON†	20·5	20·6	0·08	0·01	0·61	0·80	0·29	0·28	0·27	0·44	0·71	0·58	0·20	0·11	0·72	0·60	152	155	LONDON†
WEST HAM*	—	18·6	—	—	—	0·92	—	0·32	—	0·35	—	0·47	—	0·10	0·75	—	—	—	WEST HAM*
CROYDON*	—	15·8	—	0·01	—	0·55	—	0·07	—	0·35	—	0·55	—	0·05	0·31	—	—	123	CROYDON*
BRIGHTON	18·4	19·2	0·01	—	0·42	1·03	0·19	0·07	0·14	0·17	0·50	0·19	0·15	0·07	0·67	0·53	147	151	BRIGHTON
PORTSMOUTH	18·9	18·5	0·01	—	0·57	0·25	0·12	0·10	0·31	0·20	0·34	0·54	0·49	0·26	0·81	0·58	140	156	PORTSMOUTH
PLYMOUTH	21·7	18·8	0·00	0·01	0·52	0·41	0·45	0·52	0·16	0·09	0·32	0·05	0·28	0·21	0·62	0·61	163	147	PLYMOUTH
BRISTOL	19·4	19·5	0·03	—	0·52	0·46	0·29	0·20	0·69	0·14	0·52	0·69	0·16	0·08	0·40	0·50	143	137	BRISTOL
CARDIFF	21·1	18·8	0·03	0·01	0·64	0·44	0·39	0·62	0·19	0·26	0·54	0·32	0·31	0·19	0·88	1·05	164	163	CARDIFF
SWANSEA*	—	20·4	—	—	—	0·31	—	0·59	—	0·11	—	0·79	0·23	0·23	0·43	—	—	175	SWANSEA*
WOLVERHAMPTON	22·0	21·5	0·02	—	0·55	0·48	0·26	0·04	0·08	0·05	0·43	0·94	0·17	0·20	1·10	0·63	170	172	WOLVERHAMPTON
BIRMINGHAM	21·0	20·4	0·05	—	0·52	0·75	0·31	0·14	0·12	0·15	0·60	0·57	0·16	0·08	0·83	0·61	169	166	BIRMINGHAM
NORWICH	19·9	20·0	0·00	—	0·45	0·19	0·11	0·07	0·17	0·16	0·43	0·36	0·30	0·20	0·98	0·61	167	182	NORWICH
LEICESTER	20·5	18·2	—	0·03	0·42	0·67	0·31	0·22	0·08	0·07	0·41	0·29	0·21	0·10	1·62	1·14	203	196	LEICESTER
NOTTINGHAM	21·3	18·7	0·04	—	0·49	0·55	0·29	0·20	0·11	0·10	0·52	0·56	0·34	0·15	1·08	0·71	171	167	NOTTINGHAM
DERBY	18·6	18·3	0·01	—	0·41	0·20	0·07	0·10	0·09	0·21	0·40	0·64	0·27	0·08	0·59	0·66	145	173	DERBY
BIRKENHEAD	20·2	19·6	0·02	0·01	0·54	0·63	0·32	0·10	0·09	0·08	0·47	0·61	0·34	0·28	0·68	0·58	152	181	BIRKENHEAD
LIVERPOOL	26·3	24·7	0·04	0·03	0·93	0·89	0·56	0·25	0·16	0·11	0·72	0·52	0·47	0·23	1·05	0·80	184	168	LIVERPOOL
BOLTON	22·7	22·8	0·02	—	0·81	0·36	0·27	0·26	0·10	0·11	0·59	0·93	0·27	0·19	1·26	1·25	174	185	BOLTON
MANCHESTER	26·7	23·8	0·02	0·00	0·86	0·73	0·47	0·26	0·19	0·20	0·68	0·72	0·29	0·25	1·05	0·81	182	179	MANCHESTER
SALFORD	24·8	24·6	0·00	0·01	0·73	1·53	0·60	0·41	0·31	0·25	0·71	0·97	0·42	0·41	1·44	0·99	186	185	SALFORD
OLDHAM	22·2	22·0	0·02	0·10	0·78	1·05	0·36	0·31	0·16	0·12	0·59	0·51	0·19	0·13	0·63	0·39	175	177	OLDHAM
BURNLEY*	—	20·4	—	—	0·14	0·15	0·07	0·07	—	0·10	—	0·61	—	0·20	0·66	—	—	192	BURNLEY*
BLACKBURN	25·0	21·7	0·02	—	1·00	0·05	0·62	0·12	0·02	0·01	0·51	0·80	0·41	0·29	1·20	0·94	192	198	BLACKBURN
PRESTON	27·1	24·1	0·05	—	0·83	0·06	0·41	0·68	0·16	0·14	0·62	0·88	0·47	0·33	2·34	1·80	223	216	PRESTON
Huddersfield	21·1	18·1	0·00	0·01	0·64	0·69	0·22	0·19	0·12	0·07	0·43	0·29	0·16	0·03	0·40	0·17	170	150	Huddersfield
HALIFAX	21·3	19·5	0·00	0·20	0·41	0·80	0·28	0·10	0·09	0·20	0·28	0·11	0·24	0·10	0·32	0·14	162	160	HALIFAX
BRADFORD	20·6	18·0	0·00	0·02	0·56	0·30	0·31	0·20	0·05	0·07	0·46	0·43	0·09	0·09	0·85	0·55	168	155	BRADFORD
LEEDS	22·2	19·8	0·02	0·02	0·50	0·19	0·67	0·20	0·08	0·08	0·47	0·42	0·31	0·17	1·12	1·09	174	169	LEEDS
SHEFFIELD	22·3	20·8	0·24	0·02	0·48	0·73	0·76	0·19	0·09	0·24	0·55	0·71	0·25	0·12	1·08	1·05	173	171	SHEFFIELD
HULL	20·7	19·6	0·04	—	0·38	0·71	0·37	0·14	0·08	0·06	0·45	0·56	0·26	0·17	1·10	0·99	162	166	HULL
SUNDERLAND	23·2	20·9	0·13	—	0·87	0·91	0·45	0·14	0·11	0·07	0·46	0·74	0·36	0·43	1·03	0·64	161	157	SUNDERLAND
GATESHEAD*	—	18·9	—	—	—	0·34	—	0·25	—	0·06	—	0·26	—	—	—	0·79	—	154	GATESHEAD*
NEWCASTLE	22·7	19·7	0·09	0·01	0·66	0·33	0·39	0·14	0·15	0·22	0·55	0·43	0·30	0·07	0·75	0·44	165	151	NEWCASTLE

* See note (*) to Table 2. The decennial averages in the above Table relate only to the 38 towns for which statistics were published in previous Annual Summaries.

† See note (†) to Table 1.

TABLE 4.—33 Towns.—Mean Temperature at Greenwich, and

Number of Week.	WEEK ENDING	MEAN TEM- PERATURE AT GREEN- WICH.		ANNUAL RATE OF													
		Fahrenheit.	Centigrade.	THIRTY-THREE TOWNS.	LONDON.*	WEST HAM.	CROYDON.	BRIGHTON.	PORTSMOUTH.	PLYMOUTH.	BRISTOL.	CARDIFF.	SWANSEA.	WOLVERHAM- TON.	BIRMINGHAM.	NORWICH.	LEICESTER.
	YEAR (52 weeks)	48°1	8°94	20°7	20°6	18°6	15°8	19°2	18°5	18°8	19°5	18°8	20°4	21°5	20°4	20°0	18°2
	March Q ^r (13 weeks)	37°5	3°06	25°8	28°2	22°4	22°3	26°6	28°1	21°8	23°6	22°9	27°9	29°3	21°8	28°6	19°6
	June (13 weeks)	53°4	11°89	19°5	18°9	15°6	13°1	14°0	14°6	17°8	20°5	17°1	18°3	20°7	21°3	17°3	19°5
	Sept. (13 weeks)	59°2	15°11	17°9	17°1	18°6	12°6	15°0	15°4	16°4	16°1	17°3	16°4	17°1	18°4	16°0	17°0
	Dec. (13 weeks)	42°3	5°72	19°4	18°5	17°8	15°2	21°4	15°9	19°2	17°6	18°0	19°0	19°0	20°2	18°2	16°5
1	Jan. 9	33°1	0°61	28°7	32°8	29°5	15°7	37°2	36°0	32°3	24°7	28°3	32°8	35°0	18°8	31°0	16°2
2	" 16	30°8	-0°67	33°1	40°0	33°6	33°4	51°5	57°0	21°9	25°0	23°4	38°4	48°1	20°0	40°1	17°1
3	" 23	37°4	3°00	35°4	46°0	30°5	39°3	60°9	44°3	26°2	25°0	24°5	29°4	39°3	27°2	44°7	15°6
4	" 30	42°7	5°94	32°1	41°0	28°8	46°7	24°6	32°5	26°2	27°5	22°6	26°5	30°0	19°8	39°1	21°2
5	Feb. 6	41°5	5°28	26°2	30°6	23°3	23°6	23°7	30°6	17°7	21°2	25°9	23°7	26°8	21°7	39°6	16°2
6	" 13	43°3	6°28	23°1	24°6	20°2	20°1	24°6	24°2	21°9	19°6	21°8	22°0	23°1	20°9	21°8	22°9
7	" 20	30°7	-0°72	21°1	20°7	19°2	18°2	17°5	22°0	18°9	22°2	23°0	24°8	16°9	22°0	22°3	23°5
8	" 27	40°9	4°94	23°4	22°4	16°6	14°2	17°9	25°2	23°1	30°5	21°8	23°7	25°0	23°6	24°4	21°5
9	March 5	33°5	0°83	20°5	18°9	19°5	15°7	24°2	15°3	15°8	18°7	20°3	23°8	25°6	20°7	19°8	21°2
10	" 12	31°6	-0°22	22°9	22°1	17°8	21°1	17°9	19°1	21°9	21°7	16°8	32°8	28°1	20°5	21°8	19°7
11	" 19	41°4	5°22	24°8	24°3	15°6	13°8	15°7	21°3	18°9	25°2	22°2	27°1	32°5	23°4	23°9	21°8
12	" 26	41°4	5°22	22°3	21°3	19°9	12°8	9°9	17°8	17°1	21°0	24°5	26°5	25°0	22°4	21°8	20°6
13	April 2	42°7	5°94	22°3	21°4	16°1	14°7	19°7	19°8	21°3	25°2	23°0	26°5	26°2	21°9	21°3	21°8
14	April 9	53°4	11°89	23°3	22°2	15°4	12°3	14°3	16°2	20°1	25°2	19°1	20°3	26°8	26°0	18°8	21°4
15	" 16	41°3	5°17	20°9	19°4	15°1	14°2	15°7	14°0	21°9	23°8	21°8	20°3	18°1	21°1	19°8	22°0
16	" 23	47°1	8°39	21°8	21°0	14°9	15°7	13°9	18°5	15°8	19°8	21°8	21°5	26°2	22°8	23°3	21°4
17	" 30	45°1	7°28	20°8	19°8	16°6	10°8	9°9	11°8	18°9	23°3	17°6	19°2	21°2	24°9	18°8	23°5
18	May 7	44°7	7°06	19°7	18°9	17°3	17°2	17°9	18°5	19°5	21°2	14°9	16°4	18°7	19°0	15°7	21°1
19	" 14	55°4	13°00	20°4	19°5	13°0	12°8	17°0	13°7	22°5	21°2	17°2	17°5	28°1	21°7	18°3	20°8
20	" 21	53°9	12°17	19°3	19°4	14°4	10°8	11°6	16°2	18°3	23°3	18°8	14°1	20°0	21°5	18°8	19°7
21	" 28	62°8	17°11	19°4	18°8	16°6	13°8	13°0	13°4	17°1	21°0	18°0	19°2	25°6	23°7	16°2	22°3
22	June 4	60°3	15°89	17°9	17°4	14°2	11°8	14°3	10°8	12°8	18°4	16°5	14°7	18°1	20°0	13°7	20°6
23	" 11	61°9	16°61	17°8	17°5	18°5	11°8	18°8	14°7	17°7	17°0	11°9	26°5	16°2	19°8	13°2	14°2
24	" 18	51°3	10°72	17°8	17°1	16°3	13°3	14°3	13°7	15°8	16°6	16°8	15°2	17°5	19°2	14°7	18°0
25	" 25	57°5	14°17	17°3	17°3	15°4	8°8	11°6	13°1	13°4	16°6	14°2	16°4	11°2	19°8	14°7	11°9
26	July 2	63°2	17°33	17°1	16°8	15°9	17°7	9°4	14°7	17°1	18°9	14°2	16°4	21°2	16°8	18°3	17°1
27	July 9	63°1	17°28	17°1	17°2	16°8	10°3	13°0	15°9	16°4	18°7	11°1	13°0	20°6	17°4	10°2	13°6
28	" 16	57°8	14°33	17°9	18°9	22°6	9°8	10°7	14°3	15°2	17°3	15°7	17°5	16°2	18°1	16°2	19°7
29	" 23	56°4	13°56	17°7	19°0	19°5	16°2	12°1	11°5	13°4	13°8	11°1	13°6	16°9	16°8	19°3	15°1
30	" 30	59°4	15°22	17°3	17°5	14°9	11°8	10°3	14°3	16°4	16°6	18°0	15°8	20°6	17°9	16°2	20°6
31	August 6	60°8	16°00	17°4	17°2	17°8	10°8	18°8	17°2	19°5	18°2	21°4	20°9	9°4	15°6	11°2	15°1
32	" 13	60°6	15°89	18°0	17°4	15°4	14°7	14°3	16°2	20°1	19°4	14°2	18°6	12°5	18°5	19°8	18°0
33	" 20	63°9	17°72	18°0	17°2	21°9	12°3	20°2	18°2	15°8	19°1	15°3	15°8	21°2	19°0	18°8	16°8
34	" 27	62°8	17°11	18°5	17°2	18°0	14°7	15°2	16°2	16°4	16°1	18°0	19°9	20°6	20°5	18°8	17°4
35	Sept. 3	58°3	14°61	19°8	16°6	20°4	19°6	19°7	15°9	21°9	15°4	24°5	18°6	20°6	22°0	22°8	20°8
36	" 10	53°8	12°11	18°9	16°6	19°5	11°3	18°8	17°8	17°1	15°6	26°3	15°2	15°6	19°3	10°2	18°5
37	" 17	58°3	14°61	18°6	16°9	19°7	10°7	13°9	11°2	12°2	13°8	15°3	16°9	15°6	18°7	18°8	17°7
38	" 24	58°0	14°44	17°2	15°1	16°3	8°4	16°1	14°0	13°4	14°0	20°7	17°5	12°5	19°5	13°2	15°6
39	October 1	53°9	12°17	16°6	15°2	19°2	7°4	11°2	10°5	15°8	12°1	19°5	13°0	20°0	15°9	13°2	12°7
40	October 8	47°3	8°50	17°8	16°4	14°9	10°3	21°5	14°0	17°7	16°8	15°3	15°8	19°4	18°1	17°8	12°7
41	" 15	46°8	8°22	17°3	17°1	16°1	8°4	16°1	15°0	17°1	15°4	13°4	15°8	16°9	17°3	16°2	13°6
42	" 22	41°9	5°50	18°0	17°7	16°6	7°9	17°9	17°5	17°7	16°8	19°9	16°9	18°1	19°4	15°2	17°7
43	" 29	44°9	7°17	19°5	18°5	17°3	12°8	17°9	16°6	20°1	19°8	17°6	18°6	15°0	21°1	17°8	17°7
44	Nov. 5	47°7	8°72	19°6	18°2	18°0	22°1	23°3	15°9	20°7	15°6	15°3	11°3	26°8	21°4	17°3	15°3
45	" 12	44°3	6°83	19°5	18°8	18°0	23°6	16°1	17°8	20°1	20°1	19°1	16°4	13°1	20°4	15°2	13°0
46	" 19	47°6	8°67	18°6	18°4	16°6	13°3	22°4	14°3	14°6	18°7	18°8	20°9	13°1	18°3	15°7	16°5
47	" 26	41°3	5°17	18°9	17°7	19°5	15°7	17°5	16°9	23°1	15°6	19°5	20°9	21°2	19°6	16°7	19°7
48	Dec. 3	42°6	5°89	18°8	17°7	19°9	15°2	25°1	15°6	22°5	16°3	17°6	19°8	16°2	18°3	18°8	15°9
49	" 10	34°1	1°17	19°6	17°7	15°9	18°2	25°1	15°3	19°5	18°1	18°0	26°0	19°4	19°1	22°3	13°0
50	" 17	43°8	6°56	20°7	19°4	18°5	17°7	27°3	15°0	20°1	16°1	20°3	25°4	25°6	23°2	19°3	18°2
51	" 24	38°8	3°78	20°0	19°6	17°8	17°7	27°3	15°3	12°2	19°4	14°5	18°6	18°7	19°7	23°9	19°7
52	" 31	28°2	-2°11	24°3	22°4	22°3	15°7	20°6	17°5	23°8	21°9	24°9	20°9	23°7	26°2	20°3	21°1

* See note (†) to Table 1.

Annual Rate of Mortality in each Town, in each Week of 1892.

MORTALITY PER 1000 IN

NOTTINGHAM.	DERBY.	BIRMINGHAM.	LIVERPOOL.	BOLTON.	MANCHESTER.	SALFORD.	OLDHAM.	BURNLEY.	BLACKBURN.	PRESTON.	HUDDERSFIELD.	HAIRFAX.	BRADFORD.	LEEDS.	SHEFFIELD.	HULL.	SUNDERLAND.	GATESHEAD.	NEWCASTLE.	Number of Week.
18.7	18.3	19.6	24.7	22.8	23.8	24.6	22.0	20.4	21.7	24.1	18.1	19.5	18.0	19.8	20.8	19.6	20.9	18.9	19.7	
23.6	22.4	23.9	30.8	24.7	26.1	24.9	26.2	25.1	25.8	27.1	21.5	24.2	18.9	21.7	21.6	20.5	21.8	22.4	23.8	
16.7	18.8	18.3	23.7	20.8	24.6	22.6	22.7	20.3	20.2	22.0	18.7	21.8	18.1	18.7	21.0	18.7	22.4	17.1	19.5	
15.3	17.1	17.7	22.3	21.3	20.3	23.2	17.5	17.4	19.4	24.3	14.8	15.5	16.4	18.6	21.0	18.8	19.9	17.4	16.9	
19.3	15.0	18.5	22.2	24.4	24.1	27.8	21.6	18.7	21.3	23.0	17.2	16.6	18.4	20.1	19.7	22.6	19.7	18.8	18.6	
19.9	22.8	22.1	36.3	22.0	24.0	23.1	24.5	20.1	26.9	24.9	17.8	18.6	16.6	26.4	25.2	20.6	25.1	27.1	43.7	1
22.5	29.4	27.8	42.0	30.5	26.6	24.4	26.4	21.9	20.9	22.5	14.6	19.2	15.7	25.1	20.3	25.7	25.5	35.3	31.5	2
19.4	23.4	26.3	40.0	25.6	23.9	29.0	23.3	21.3	29.4	29.6	17.3	19.8	20.5	20.3	21.8	19.1	23.6	21.2	31.2	3
26.6	25.0	34.0	33.1	27.8	27.6	19.5	22.1	21.3	37.5	23.0	20.5	19.2	20.7	21.8	20.1	23.9	18.4	28.8	22.8	4
26.4	19.6	21.6	27.1	27.4	24.2	24.6	25.3	20.7	27.7	31.1	18.4	17.4	13.8	17.1	20.9	22.7	20.8	21.2	20.6	5
32.0	20.1	17.0	24.1	20.6	24.2	21.0	25.6	19.6	24.7	30.6	17.3	18.0	16.6	17.9	19.8	19.9	20.8	18.8	27.1	6
23.2	13.0	23.2	25.1	17.9	23.6	24.4	26.4	26.5	27.7	28.2	20.0	24.2	15.5	17.4	20.3	19.4	15.7	18.2	17.9	7
27.4	29.9	27.8	29.6	25.6	25.0	26.5	26.4	34.0	29.9	27.3	17.8	32.9	19.7	21.4	21.7	18.3	19.6	20.6	25.8	8
16.7	21.2	19.6	27.8	20.2	26.2	21.8	21.8	30.5	19.2	32.5	26.4	26.7	19.0	18.9	22.9	20.9	19.2	17.7	15.5	9
20.7	26.1	21.1	30.0	22.4	27.2	25.2	25.6	27.0	28.2	20.6	24.3	31.6	24.7	23.6	19.9	19.9	25.9	23.5	16.5	10
25.8	22.3	23.2	33.1	32.7	29.2	33.2	33.4	33.4	26.0	26.3	27.5	29.8	24.7	24.7	24.8	21.1	25.9	21.8	17.4	11
23.0	13.6	22.7	26.8	22.0	29.2	27.5	35.0	23.0	18.8	29.6	37.2	31.0	19.7	22.6	22.8	16.3	19.6	19.4	17.9	12
23.2	24.5	24.2	25.0	26.0	28.1	23.6	24.5	36.5	21.3	26.8	20.5	26.7	18.3	24.6	20.7	18.8	22.8	17.1	21.7	13
20.3	22.8	16.0	26.9	29.6	31.0	33.5	31.1	20.7	27.3	28.2	20.5	31.6	24.5	24.6	24.0	22.4	20.4	17.1	23.6	14
19.1	20.1	17.5	28.1	23.8	27.0	28.3	19.8	13.2	19.2	21.0	24.3	25.4	20.2	21.5	24.6	25.9	18.2	18.2	21.2	15
18.4	28.3	20.1	23.6	28.3	25.8	28.0	24.5	23.6	20.9	23.4	1.6	19.8	20.9	22.4	25.6	20.6	23.9	18.2	25.5	16
15.5	20.1	27.3	27.5	20.6	26.3	20.7	19.4	22.4	18.8	19.6	22.1	24.8	22.1	22.9	22.1	18.3	24.3	17.1	18.4	17
16.0	22.8	20.1	24.2	17.0	23.4	20.5	24.1	18.4	21.8	23.9	15.7	14.3	18.5	19.3	22.8	17.1	28.3	23.0	19.0	18
15.0	19.6	21.6	24.6	23.8	24.6	22.6	24.5	23.6	26.4	26.8	23.8	24.8	20.7	17.4	25.0	18.8	18.2	18.8	19.0	19
17.9	21.2	16.0	22.5	19.3	24.7	19.7	22.5	19.0	20.0	14.8	15.1	16.1	15.2	19.4	19.5	15.3	21.2	14.7	17.9	20
14.8	8.7	16.0	24.8	21.5	25.2	21.5	20.6	19.6	23.9	23.4	15.1	22.9	17.1	15.6	18.4	18.6	27.5	15.9	18.7	21
18.4	19.0	15.4	21.9	15.7	24.3	17.3	17.9	25.9	17.5	20.6	14.0	24.2	14.7	17.9	18.9	18.4	16.0	19.0	12.9	22
12.8	12.5	17.5	21.4	17.5	23.7	17.6	24.1	21.9	22.2	21.0	17.8	18.0	16.9	15.1	16.5	13.2	18.1	12.9	20.6	23
18.4	16.9	17.5	22.9	21.5	21.4	20.2	22.5	19.0	17.5	22.0	14.0	21.7	13.8	16.0	19.3	11.2	19.2	19.4	19.8	24
15.3	16.3	15.4	20.2	15.2	21.1	21.5	22.9	17.8	13.2	19.1	22.7	19.8	14.6	16.8	18.4	13.2	17.7	16.5	18.7	25
15.3	15.8	17.5	19.8	16.1	21.9	18.4	21.8	19.0	13.7	22.5	16.7	19.8	14.5	13.6	17.9	13.8	22.4	17.7	14.9	26
17.2	16.3	17.0	22.1	16.1	21.1	15.6	15.5	13.8	14.1	20.1	13.5	14.9	15.2	16.2	16.8	18.4	23.2	20.0	14.4	27
15.7	16.3	9.8	21.5	17.9	17.6	10.6	13.6	15.5	21.3	18.2	16.7	19.8	17.1	13.9	16.8	13.5	17.7	16.5	17.4	28
13.1	17.4	20.1	16.5	21.5	18.8	18.9	17.5	16.7	21.3	16.7	15.7	14.3	12.8	17.6	19.0	19.9	19.6	15.3	19.0	29
16.5	17.4	17.0	25.9	17.0	17.4	20.5	13.2	6.3	13.2	18.2	11.9	14.9	13.8	13.7	19.3	17.1	22.8	12.9	14.1	30
11.4	14.1	21.1	25.2	18.8	19.7	21.0	15.9	10.9	18.8	17.2	11.9	14.9	16.4	13.6	19.5	18.3	23.9	10.0	14.1	31
15.3	16.3	19.1	23.3	22.4	22.8	21.5	16.7	24.2	17.9	16.7	14.0	18.0	18.3	16.2	20.3	15.3	13.7	15.3	17.4	32
11.6	15.8	16.0	23.2	19.7	19.1	26.2	20.2	16.1	18.8	28.2	13.0	15.5	14.7	17.8	22.1	12.0	19.2	12.9	14.9	33
17.4	17.4	19.6	21.2	24.7	20.9	22.0	20.6	21.3	19.2	32.5	15.1	16.1	16.6	19.3	25.5	19.4	16.5	17.1	16.0	34
13.6	19.6	24.2	24.7	31.8	23.8	33.7	22.9	15.0	19.6	37.8	15.1	11.8	14.5	26.1	28.6	21.4	18.1	23.5	20.9	35
14.3	17.9	13.9	23.5	22.0	20.5	26.5	21.0	28.8	24.7	31.6	14.6	18.6	13.0	20.1	26.5	23.7	20.9	21.6	23.9	36
17.2	25.0	19.1	23.1	20.6	21.4	30.1	19.0	18.4	20.5	27.7	9.7	13.6	20.5	22.2	21.2	23.4	21.2	23.5	17.6	37
17.9	15.8	20.6	18.9	24.2	19.9	24.4	16.3	20.1	19.2	29.2	21.1	12.4	20.9	20.1	20.4	21.9	20.4	21.8	17.0	38
17.9	13.8	13.4	20.3	19.7	21.4	21.8	15.2	19.6	23.5	21.5	20.0	16.7	15.7	17.8	20.1	21.9	20.8	15.3	14.6	39
17.4	13.0	19.6	22.0	23.3	21.8	26.7	18.6	20.7	11.9	22.5	20.0	14.3	18.1	19.0	19.1	18.1	21.6	17.7	20.3	40
15.3	12.0	19.6	20.2	13.0	19.6	23.3	19.4	15.0	20.9	30.6	16.7	15.5	17.4	17.9	17.9	17.8	16.5	18.2	16.5	41
16.0	14.1	12.4	19.8	21.1	19.2	19.5	22.9	21.3	18.3	23.0	15.1	14.9	18.1	17.7	16.8	16.0	21.2	17.7	18.2	42
17.9	16.3	24.2	22.3	18.0	22.7	33.5	22.9	18.4	20.0	23.9	23.8	19.8	18.1	19.4	19.0	25.2	13.3	20.6	19.8	43
17.2	14.1	18.0	25.2	26.9	25.8	30.3	21.0	19.6	26.0	19.1	19.4	15.5	16.4	18.1	20.9	22.7	18.8	24.7	18.2	44
17.9	15.8	21.6	21.4	25.1	22.4	28.0	20.2	19.0	21.8	29.6	16.2	16.1	19.3	18.2	20.6	29.3	18.8	16.5	17.1	45
16.9	14.1	18.5	19.3	25.1	25.7	20.6	23.6	18.8	22.5	20.0	12.4	17.6	15.7	19.5	20.4	16.1	18.8	17.6	16.6	46
20.6	13.6	19.6	20.5	21.1	22.9	31.6	18.6	18.4	26.9	20.1	16.7	24.2	17.8	18.2	18.2	16.0	19.2	15.9	20.1	47
19.9	16.9	10.3	20.8	28.7	24.8	25.7	19.0	16.7	16.6	21.5	14.0	13.0	15.2	19.0	17.7	27.5	17.7	15.3	23.6	48
25.4	17.4	22.7	21.3	28.3	26.1	31.6	29.5	20.7	19.2	18.7	15.1	11.2	20.9	20.7	21.7	21.6	23.9	14.7	18.8	49
17.7	14.7	20.1	22.7	35.4	28.3	27.5	26.0	16.7	23.0	22.5	13.5	17.4	17.8	18.9	20.7	28.3	27.1	25.9	15.5	50
18.2	14.7	15.4	20.7	25.6	25.2	23.9	19.4	15.5	21.3	17.2	16.7	18.0	18.8	23.6	20.7	26.7	18.8	20.0	18.2	51
30.7	17.9	18.0	31.9	30.0	34.1	34.0	22.9	17.8	32.0	28.2	16.2	23.6	23.3	31.1	23.4	26.7	23.2	18.2	18.4	52

TABLE 5.—Births and Deaths in 1892 in **Edinburgh, Glasgow, and Dublin**, and in certain **Colonial and Foreign Cities.**

CITIES.	POPULATION (enumerated or estimated).	BIRTHS. (Excluding Stillborn.)	DEATHS.	ANNUAL RATE per 1000 Persons living.		DEATHS FROM SOME ZYMOTIC DISEASES.							
				Births.	Deaths.	Small-pox.	Measles.	Scarlet Fever.	Diphthe- ria.	Whoop- ing-cough.	Fever.	Diarrhoeal Diseases.	
EDINBURGH - -	264,787	7162	5120	27·1	19·4	1	404	69	41	87	34	92	
GLASGOW - - -	669,059	22771	15142	34·1	22·7	6	767	304	158	579	121	333	
DUBLIN - - -	349,594	9699	10214	27·8	29·3	-	472	21	12	155	138	227	
CALCUTTA - - -	466,460	-	12559	-	27·0	17	44	-	29	20	4594	2520†	
BOMBAY (53 weeks)	821,764	15638	26831	18·7	32·1	551	703	?	?	?	7885	2012†	
MADRAS - - -	452,518	16654	20764	36·9	46·0	28	371	?	?	?	6864	4561†	
SYDNEY - - -	406,480	14070	5512	34·5	13·5	1	2	43	120	105	83	297	
PARIS - - -	2,424,705	60412	54086	25·0	22·4	42	903	157	1398*	334	683	5212†	
BRUSSELS (with Faubourgs).	476,862	12791	9963	26·8	20·8	13	184	8	127*	97	112	1059†	
AMSTERDAM - -	426,914	14382	8517	33·8	20·0	-	100	4	102	138	63	19†	
ROTTERDAM - -	216,679	7770	5069	36·0	23·5	-	44	106	22	80	14	37†	
THE HAGUE - -	165,560	-	3415	-	20·7	-	21	1	49	57	6	8†	
COPENHAGEN - -	330,000	16172	6564	30·9	19·9	-	173	24	259	143	23	371	
STOCKHOLM - -	248,051	7097	4949	28·7	20·0	-	-	260	333*	19	46	483	
CHRISTIANIA - -	156,535	3289	3012	21·1	19·3	-	64	34	80	146	6	356	
ST. PETERSBURG (without Faubourgs).	954,400	-	-	-	-	-	-	-	-	-	-	-	
MOSCOW - - -	753,469	26715	27876	35·4	36·9	228	515	573	492	247	512	5845†	
BERLIN - - -	1,662,237	47720	32436	28·8	19·6	2	298	313	1319	360	135	4701†	
HAMBURG (State) -	637,686	22868	25238	36·0	39·7	3	509	146	271*	238	217	11460†	
DRESDEN - - -	301,400	9449	6178	31·4	20·6	-	11	39	380*	54	16	753	
BRESLAU - - -	346,442	12260	8817	35·5	25·5	1	30	52	252*	58	52	1357	
MUNICH - - -	373,000	13213	9717	35·3	26·0	2	129	47	308*	112	11	1635	
VIENNA (with Suburbs).	1,406,933	44787	34114	31·9	24·3	17	768	233	1548*	165	110	3518†	
PRAGUE - - -	321,167	9978	9138	31·2	28·5	349	143	67	209	84	163	181	
BUDA-PESTH - -	526,263	18240	14647	34·8	27·9	5	147	219	735	14	137	2225†	
TRIESTE - - -	157,343	4747	4711	30·3	30·0	-	14	22	183*	40	41	30	
ROME - - -	438,123	11633	9242	26·6	21·2	3	50	20	139	16	253†	612	
MILAN - - -	424,887	12301	10710	28·9	25·1	13	41	6	391	24	263	664	
TURIN - - -	329,724	7811	7604	23·6	23·0	2	90	10	120	104	144	580	
VENICE - - -	162,664	4157	4156	25·6	25·6	5	2	2	63*	13	49	355	
CAIRO (51 weeks) -	374,838	20160	17241	55·0	47·0	71	4	-	69*	108	612	4870	
ALEXANDRIA (51 weeks).	231,396	10445	9349	46·2	41·3	138	11	1	126*	68	177	2422	
NEW YORK - - -	1,827,571	-	44103	-	24·2	81	863	976	1419	369	443	3598†	
BROOKLYN - - -	962,530	-	20710	-	21·6	5	166	408	771	180	161	1894	
PHILADELPHIA - -	1,092,168	-	24305	-	22·3	-	84	465	1435	140	442	1654	
BALTIMORE - - -	455,427	-	10582	-	23·2	-	120	258	331	32	226	921	
BOSTON - - -	469,647	-	11236	-	23·9	-	19	262	414	45	137	693	
ST. LOUIS - - -	460,000	-	-	-	-	-	-	-	-	-	-	-	
NEW ORLEANS - -	254,000	-	7447	-	29·4	-	7	1	109	24	406	534	

* Including deaths from croup.

† Including 1260 deaths from cholera in Calcutta, 162 in Bombay, 618 in Madras, 700 in Paris, 92 in Brussels, 13 in Amsterdam, 22 in Rotterdam, 5 in The Hague, 724 in Moscow, 15 in Berlin, 8063 in Hamburg, 3 in Vienna, 510 in Buda-Pesth, and 8 in New York.

‡ Including 137 deaths from malarial fever.

TABLE 6.—LONDON.* Numbers of Natives and Immigrants respectively, living in LONDON, in 1871 and in 1881.

	MALES.		FEMALES.		EXCESS OF FEMALES.	
	1871.	1881.	1871.	1881.	1871.	1881.
TOTAL INHABITANTS - - -	1,523,151	1,797,486	1,731,109	2,018,997	207,958	221,511
BORN IN LONDON - - -	975,461	1,147,063	1,080,115	1,254,892	104,654	107,829
BORN OUT OF LONDON - - -	547,690	650,423	650,994	764,105	103,304	113,682

* This Table refers to London as constituted in 1881. The numbers therefore differ from those in Tables in the Annual Summary from which the hamlet of Mottingham is excluded; this hamlet was transferred from Registration London to the Outer Ring in 1887.

TABLE 7.—GREATER LONDON.—Area, Population, Inhabited Houses, and Ratable Value.

	AREA (including Tidal Water).		Enumerated POPULATION, 1891. (Unrevised.)	DENSITY OF POPULATION in 1891.		INHABITED HOUSES, 1891. (Unrevised.)	RATABLE VALUE.* 1891.
	In Acres.	In Square Miles.		Persons to an Acre.	Persons to a Square Mile.		
GREATER LONDON - - -	448,334	701	5,633,332	12·6	8,036	797,679	£ 39,790,902
REGISTRATION LONDON - - -	77,410	121	4,211,056	54·4	34,802	553,764	31,819,412
OUTER RING - - -	370,924	580	1,422,276	3·8	2,452	243,915	7,980,490

* Supplied from the London County Council and Metropolitan Police Offices.

TABLE 8.—GREATER LONDON (THE METROPOLITAN AND CITY POLICE DISTRICTS).—Population; and Births and Deaths in the 52 Weeks of 1892.

	POPULATION, estimated to the middle of 1892.	ANNUAL RATE per 1000 living.			TOTAL BIRTHS.	TOTAL DEATHS.	The DEATHS registered in the 52 Weeks include										
		Births.	Deaths.	Principal Zymotic Diseases.			Deaths of		Deaths from								Deaths in Public Institutions.
							Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhoea.		
GREATER LONDON	5,752,204	30·7	19·3	2·64	175,915	110,892	26,368	28,147	51	4281	1381	2318	3150	613	3366	24220	
REGISTRATION LONDON*	4,263,294	30·9	20·6	2·82	131,535	87,749	20,359	21,826	41	3393	1174	1885	2477	467	2546	22260	
OUTER RING	1,488,910	29·9	15·6	2·14	44,380	23,143	6009	6321	10	888	207	433	673	146	820	1960	

* See note (†) to Table 1.

TABLE 9.—London.—Mortality in Five Groups of Districts, and Meteorology at Greenwich, 1841-1892.

	LONDON.	GROUPS OF DISTRICTS.					METEOROLOGY AT GREENWICH.			
		WEST.	NORTH.	CENTRAL.	EAST.	SOUTH.	Mean Temperature of Air.	Degree of Humidity. Saturation = 100.	Rainfall, in Inches.	Mean Hourly Horizontal Movement of the Air.*
Area in Square Miles . . .	121.0	16.8	21.0	8.5	9.3	70.4				
Decennial Increase of Population per Cent., 1881-91 . . .	10.4	10.6	9.7	-12.4 (decrease).	1.8	20.4				
Enumerated Population, 1891 (unrevised)	4,211,056	740,725	894,207	247,140	705,012	1,523,972				
Density: Persons to an Acre . . .	1841 25 1871 42 1881 49 1891 56	27 52 62 71	38 52 67 74	175 150 127 116	65 107 116 128	11 21 28 35				
MEAN RATE OF MORTALITY PER 1000 IN 52 YEARS.							MEANS IN 52 YEARS, 1841-92.			
YEARS.							°	ins.	miles.	
1841-1892	23.1	21.7	21.8	24.8	25.3	22.9	49.2	81	24.5	11.1
MEANS IN PERIODS OF TEN YEARS.							MEANS IN PERIODS OF TEN YEARS			
							°	ins.	miles.	
1841-50	24.8	23.0	22.7	24.7	26.2	26.2	49.4	83	24.5	—
1851-60	23.7	22.6	22.2	24.4	25.1	24.4	49.0	81	24.4	10.0
1861-70	24.4	22.7	23.6	26.5	26.9	23.4	49.6	81	24.0	10.8
1871-80	22.5	20.8	21.9	24.9	25.0	21.9	49.2	81	26.5	11.6
1881-90	20.5	19.7	19.1	23.3	23.7	19.5	48.9	81	23.1	11.8
ANNUAL RATE OF MORTALITY PER 1000.							METEOROLOGY IN EACH YEAR.			
							°	ins.	miles.	
1841	24.1	22.4	22.4	25.0	25.1	24.4	48.7	83	33.3	—
1842	23.6	22.6	22.6	23.6	24.4	23.9	49.6	84	22.6	—
1843	24.8	23.3	23.1	25.3	26.4	24.8	49.4	87	24.6	—
1844	25.1	23.9	23.3	24.4	25.9	25.6	48.6	83	24.9	—
1845	23.3	22.5	21.0	24.0	24.6	23.8	47.6	85	22.4	—
1846	23.4	21.6	21.9	24.1	24.6	24.6	51.3	85	25.3	—
1847	26.8	24.5	25.4	27.9	29.4	27.7	49.5	81	17.3	—
1848	25.7	23.6	23.4	25.3	28.7	27.2	50.4	79	30.2	—
1849	30.1	26.1	33.7	27.9	31.8	37.6	50.0	78	23.9	—
1850	21.0	19.6	19.8	21.1	21.7	21.9	49.3	79	19.7	11.0
1851	23.4	22.0	22.2	24.1	24.8	24.0	49.2	78	21.6	10.3
1852	22.5	21.5	21.2	23.9	23.3	23.0	50.6	76	34.2	10.6
1853	24.4	23.3	22.4	25.1	26.5	25.3	47.7	79	29.0	9.5
1854	29.4	28.5	24.4	27.4	30.0	34.8	48.9	83	18.7	10.3
1855	24.3	23.0	23.5	25.1	25.5	24.6	47.1	85	21.1	9.9
1856	22.0	21.5	21.1	23.0	23.9	21.8	49.0	83	22.2	10.6
1857	22.4	21.2	21.5	23.8	24.6	21.5	51.0	83	21.4	9.8
1858	23.9	22.4	23.9	24.5	25.8	24.0	49.2	79	17.8	9.3
1859	22.7	21.4	21.7	24.1	24.0	22.6	50.7	80	25.9	9.5
1860	22.4	22.2	21.2	23.3	24.1	22.1	47.0	84	32.0	10.0
1861	23.2	22.1	22.3	25.4	24.0	23.8	49.4	84	30.8	9.9
1862	23.6	22.0	22.0	26.2	26.0	22.7	49.5	84	26.2	10.0
1863	24.5	22.9	23.8	26.9	26.5	23.3	50.3	80	20.0	10.3
1864	26.4	24.4	25.3	29.5	28.0	25.8	48.5	78	16.7	9.5
1865	24.5	22.6	24.5	27.1	26.5	23.9	50.3	80	29.0	9.3
1866	26.5	22.6	25.3	27.1	34.0	24.1	49.8	82	36.7	11.4
1867	23.0	21.7	23.1	24.8	24.2	22.1	48.6	82	28.4	11.5
1868	23.5	22.2	22.7	25.2	25.4	22.9	51.5	78	25.2	12.2
1869	24.6	22.2	23.5	26.6	27.9	23.8	49.5	81	24.0	12.2
1870	24.1	23.8	23.5	26.0	25.0	23.4	48.7	79	18.5	11.1
1871	24.6	22.5	23.6	25.0	26.1	24.0	48.7	81	22.3	10.5
1872	21.5	19.6	21.2	23.6	23.6	20.7	50.7	82	30.0	11.9
1873	22.4	21.2	22.1	25.1	25.3	21.7	48.8	83	23.4	11.8
1874	22.4	20.9	21.7	25.7	25.7	21.0	49.3	82	20.0	11.5
1875	23.6	22.2	22.2	26.2	25.7	23.3	49.2	80	28.2	11.5
1876	21.9	21.0	21.2	24.1	24.0	21.2	50.1	80	24.2	12.1
1877	21.6	19.2	21.5	24.2	24.5	20.5	49.4	79	26.9	13.0
1878	23.1	21.6	22.0	25.2	25.1	23.0	49.6	81	29.8	11.1
1879	22.6	20.9	21.5	26.3	25.5	21.8	46.2	83	31.8	11.3
1880	21.7	19.8	20.8	23.8	24.3	21.3	49.4	84	29.8	11.7
1881	21.3	19.6	20.7	23.4	24.3	20.5	48.7	81	25.2	12.1
1882	21.5	20.0	19.8	24.0	25.3	20.8	49.7	84	25.2	12.3
1883	20.8	19.8	19.4	23.3	24.4	19.3	49.4	82	21.0	12.1
1884	20.9	19.7	19.6	23.8	23.4	20.2	50.7	80	18.1	11.9
1885	20.4	19.3	19.3	22.9	23.0	19.1	48.6	81	24.0	12.0
1886	20.6	19.8	18.9	23.4	23.9	19.9	48.7	81	24.2	11.8
1887	20.3	19.9	18.9	23.5	23.3	19.4	47.8	79	19.9	11.5
1888	19.3	19.3	17.7	22.7	22.7	18.1	47.7	82	27.5	12.3
1889	18.4	18.9	20.9	23.9	23.7	17.7	48.3	88	23.3	10.2
1890	21.4	20.5	19.6	24.8	25.1	19.6	46.8	81	21.9	11.2
1891	21.4	20.3	20.0	26.5	24.0	19.8	48.4	82	25.1	11.7
1892	20.6	20.0	19.4	23.9	23.5	19.0	48.1	80	22.3	11.6

NOTE.—The populations upon which these rates of mortality have been calculated are deduced from the numbers enumerated at the six Censuses of 1841, 1851, 1861, 1871, 1881, and 1891. The deaths used for the 51 years 1841-91 are for the calendar years, while those for 1892 are the numbers registered in the 52 weeks ending 31st December 1892.

Hampstead and Lewisham did not form part of Registration London prior to 1847. Wandsworth was not included in Registration London until the commencement of 1844, but the facts for that district have been included, in calculating the rates in the above Table, for the years 1840-43. The hamlet of Mottingham was transferred from Lewisham District to the Outer Ring on 1st April 1887.

Certain changes affecting the West and Central groups of districts were made in the year 1868, but no corrections for these changes have been made in this Table for any year prior to 1861.

* Approximated to the results of Robinson's anemometer by reduction from Whewell's, up to 1859.

TABLE 10.—LONDON*: Population at different Ages, as enumerated in 1851, 1861, 1871, 1881, and 1891, with the Numbers of Males and Females at the various Ages in 1891.

—	ALL AGES.	0—	5—	10—	15—	20—	25—	35—	45—	55—	65—	75—	85 & upwds.
1851	2,362,236	293,562	243,648	216,369	213,694	241,401	428,123	308,949	208,363	122,946	62,608	19,845	2,728
1861	2,803,989	332,296	300,259	264,349	259,155	277,389	476,802	368,417	246,918	149,503	74,039	23,721	3,141
1871	3,254,260	422,629	349,686	309,658	307,075	321,535	551,973	404,954	290,977	174,265	90,198	27,604	3,656
1881	3,816,483	497,044	419,740	366,111	363,828	385,226	641,265	471,131	320,530	205,921	103,813	32,982	4,090
1891	4,211,066	501,558	454,977	416,349	416,747	428,379	717,385	519,556	368,475	221,520	122,715	39,169	5,126
Males	—	1,990,438	249,270	225,858	206,194	197,393	194,080	333,636	246,183	173,084	98,760	50,401	14,069
Females	—	2,220,618	252,288	228,219	210,155	219,354	234,299	383,749	273,373	195,391	122,760	72,314	25,100

* In England the proportion of Females to Males in the population in 1891 was as 106 to 100; in London it was as 112 to 100. The proportions in 1881 were 105 and 112 respectively. The figures in this table refer to London as constituted in the respective census years.

TABLE 11.—LONDON: Marriages, Births, and Deaths, 1878-1892.

YEARS.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892 (52 weeks).
MARRIAGES	33,711	33,477	34,144	34,578	35,612	35,879	35,381	34,560	34,482	34,251	34,635	35,412	36,762	37,341	37,175
BIRTHS	Persons 129,765	131,542	133,310	132,904	133,309	134,503	135,651	132,952	134,339	133,359	131,761	132,233	128,161	134,484	131,535
	Males 66,241	66,445	67,985	67,556	67,958	68,449	69,106	67,924	68,507	67,569	66,919	67,398	65,168	68,383	67,021
	Females 63,524	65,097	65,325	65,348	65,351	66,054	66,545	65,028	65,832	65,790	64,842	64,835	62,993	66,101	64,514
DEATHS*	Persons 84,298	83,964	81,967	81,431	83,015	81,108	82,448	80,978	82,691	82,443	79,244	76,162	89,268	89,122	87,749
	Males 43,100	42,920	42,038	41,742	42,141	41,718	42,565	41,285	42,257	42,201	40,495	39,947	45,969	45,697	44,541
	Females 41,198	41,044	39,919	39,689	40,874	39,395	39,883	39,693	40,434	40,242	38,749	37,215	43,309	43,425	43,208
EXCESS OF BIRTHS OVER DEATHS	45,467	47,578	51,353	51,473	50,294	53,395	53,208	51,974	51,848	50,916	52,517	56,071	38,893	45,362	43,786
ANNUAL RATES PER 1000.	Persons Married 18.5	18.0	18.1	18.1	18.4	18.1	17.9	17.4	17.2	16.9	16.9	17.1	17.6	17.7	17.4
	Births 35.5	35.5	35.3	34.7	34.5	34.5	34.3	33.4	33.4	32.9	32.1	31.9	30.7	31.9	30.9
	Deaths 23.1	22.6	21.7	21.3	21.5	20.8	20.9	20.4	20.6	20.3	19.8	18.4	21.4	21.1	20.6

NOTE.—The figures in the above table, except those for 1892, relate to the calendar year ending 31st December. The figures for 1892 relate to the 52 weeks ending 31st December 1892.

* See note † to Table 1.

TABLE 12.—LONDON. Population, and Zymotic and

PERIOD AND YEAR.	ESTIMATED POPULATION.	DEATHS FROM PRINCIPAL ZYMOTIC DISEASES.									
		Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Simple and defined Fever.	Diarrhoea and Dysentery.	Cholera.
Cols. - 1	2	3	4	5	6	7	8	9	10	11	12
Period.											
1841-50	2,103,487	8,416	13,011	18,314		18,079	20,890			16,926	15,588
1851-60	2,570,489	7,150	13,766	26,317		22,497	22,597			26,362	12,886
1861-70	3,018,193	8,347	17,338	34,391	5,323	26,550	27,149			31,578	7,403
1871-80	3,513,843	15,539	17,947	21,247	4,319	28,728	1,887	8,536	2,579	33,168	1,323
1881-90	4,000,158	5,634	25,449	13,268	10,435	27,686	327	7,502	717	29,922	941
1843	1,954,041	438	1442	1867		1908	2094			1005	85
1844	2,033,816	1804	1182	3029		1292	1721			831	65
1845	2,073,298	909	2318	1085		1816	1324			940	43
1846	2,113,535	287	747	928		2035	1838			2308	238
1847	2,202,673	955	1778	1433		1600	3297			2233	117
1848	2,244,837	1620	1144	4767		1630	3685			2247	652
1849	2,287,302	521	1154	2140		2349	2564			3837	14,125
1850	2,330,054	499	980	1169		1568	2032			2077	127
1851	2,373,081	1062	1297	1285		2185	2374			2755	213
1852	2,416,367	1159	595	2571		1569	2183			2513	162
1853	2,459,899	211	978	2016		2667	2617			2649	883
1854	2,503,662	694	1409	3477		2502	2316			3325	10,738
1855	2,547,639	1039	878	2611		2438	2460			2190	140
1856	2,591,815	531	1479	1819		2092	2717			2414	152
1857	2,636,174	166	1341	1599		2527	2185			3298	214
1858	2,680,700	242	2369	4184		2708	1919			2220	131
1859	2,725,374	1158	1330	3481	773	1742	1849			3513	193
1860	2,770,181	898	2090	2017	484	2067	1476			1485	51
1861	2,815,101	217	1062	2381	674	3548	1848			2740	168
1862	2,860,117	366	2334	3492	730	2168	3073			1839	106
1863	2,905,210	1996	1634	4955	799	2175	2871			2492	159
1864	2,950,361	547	2788	3244	611	2423	3782			3013	156
1865	2,995,551	640	1290	2179	431	3335	3217			3721	196
1866	3,040,751	1381	2220	1892	462	2960	2688			3294	5596
1867	3,085,971	1345	1143	1451	447	2278	2184			3060	240
1868	3,131,160	597	1962	2016	405	2338	2463			4110	324
1869	3,176,308	275	1456	5841	340	3769	716	1069	615	3495	219
1870	3,221,394	978	1449	6040	334	1956	472	976	570	3814	239
1871	3,267,251	7912	1427	1902	344	2291	384	871	436	3968	221
1872	3,319,736	1786	1680	918	267	3259	174	807	322	3688	181
1873	3,373,065	1113	2149	645	320	2620	277	908	325	3950	162
1874	3,427,250	57	1680	2648	419	1867	312	879	337	3201	123
1875	3,482,306	46	1403	3677	551	3204	128	817	272	3289	108
1876	3,538,246	736	1720	2308	387	2737	159	769	202	3585	135
1877	3,595,085	2551	2387	1880	316	1817	157	901	194	2421	88
1878	3,652,837	1417	1500	1808	566	4483	151	1033	197	3534	124
1879	3,711,517	450	2475	2661	575	2934	71	849	160	1894	53
1880	3,771,139	471	1521	3100	544	3516	74	702	134	3738	133
1881	3,824,964	2367	2536	2114	657	1973	92	971	134	3055	95
1882	3,862,876	430	2338	2006	857	4682	53	975	95	2144	79
1883	3,901,164	136	2441	2006	952	1598	55	963	102	2652	83
1884*	3,939,832	832	2271	1430	951	3156	32	925	78	3903	163
1885*	3,978,883	1419	2909	722	904	2481	28	597	78	2723	77
1886*	4,018,321	24	2086	690	851	2871	13	618	73	3996	137
1887*	4,058,150	9	2904	1443	953	2935	19	612	44	3801	107
1888*	4,098,374	9	2425	1214	1511	2993	9	694	35	2206	54
1889*	4,138,996	—	2308	785	1617	1787	16	538	42	2692	62
1890*	4,180,021	4	3231	858	1382	3210	10	609	36	2750	84
1891*	4,221,452	8	1807	598	1435	2872	11	558	44	2435	71
1892*	4,263,294	41	3393	1174	1885	2477	11	436	20	2546	87

NOTE.—Wandsworth was not included in Registration London until 1844, nor Lewisham and throughout, but the population in each year refers

For the years 1843-50 the numbers of deaths from the various diseases are derived from The figures for

Infant Mortality in 50 Years 1843-92.

ANNUAL MORTALITY, TO PER MILLION PERSONS LIVING, FROM PRINCIPAL ZYMOTIC DISEASES.										Annual Mortality of Infants under One Year of Age to 1000 Births.	PERIOD AND YEAR.
Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus.	Enteric Fever.	Ill- Simple and defined Fever.	Diarrhoea and Dysentery.	Cholera.		
13	14	15	16	17	18	19	20	21	22	23	24
402	623	863		867	979			782	688	157	Period. 1841-50
280	530	1017		877	886			1030	514	155	1851-60
276	576	1133	179	882	904			1040	243	162	1861-70
457	510	600	122	815	55	244	75	949	38	158	1871-80
145	636	335	259	693	8	189	18	748	23	152	1881-90
225	740	959		980	1075			516	44	163	1843
890	583	1494		637	849			410	32	152	1844
440	1122	525		879	641			455	21	149	1845
122	355	441		968	873			1096	108	157	1846
427	795	640		715	1474			1020	52	166	1847
724	511	2131		729	1647			1004	291	158	1848
229	506	943		1030	1125			1683	6196	169	1849
215	422	503		675	875			894	55	140	1850
448	547	541		921	1000			1161	90	154	1851
478	246	1061		648	901			1037	67	151	1852
86	398	820		1084	1064			1077	359	158	1853
277	563	1389		999	1125			1328	4289	164	1854
408	345	1025		957	966			560	58	152	1855
204	569	700		805	1045			929	58	150	1856
59	509	607		959	833			1251	81	156	1857
90	884	1561		1010	716			828	49	160	1858
425	488	1277		639	675			1289	71	150	1859
323	752	726		744	531			535	18	153	1860
77	877	846		1260	656			973	60	155	1861
128	816	1221		758	1284			643	37	143	1862
687	562	1706		749	988			858	55	151	1863
185	942	1097		819	1278			1018	53	169	1864
214	431	727		980	1074			1242	65	171	1865
457	730	622		973	884			1083	1840	172	1866
436	870	470		738	708			992	78	159	1867
190	625	929		745	786			1309	103	166	1868
87	458	1839		1187	225	337	194	1100	69	170	1869
302	450	1875		607	147	303	177	1184	74	164	1870
2422	437	532		701	118	267	133	1214	68	171	1871
537	505	276		979	52	242	97	1078	54	158	1872
34	637	191		777	82	269	96	1171	48	160	1873
17	490	773		545	91	256	98	934	36	156	1874
13	404	1056		920	37	235	78	944	31	162	1875
207	485	651		771	45	217	57	1010	38	157	1876
710	664	439		505	44	251	54	673	24	146	1877
388	411	495		1227	41	283	54	967	34	164	1878
121	667	717		791	19	229	43	510	14	148	1879
125	402	820		930	20	186	35	989	55	158	1880
619	663	553		516	24	254	35	799	25	148	1881
111	605	519		1212	14	252	24	555	20	151	1882
35	626	514		410	14	247	26	680	21	146	1883
313	575	362		799	8	234	20	983	41	156	1884
357	731	131		624	7	150	20	634	19	148	1885
6	519	172		714	3	154	18	994	34	159	1886
2	716	356		723	5	151	11	937	26	158	1887
2	590	295		728	2	169	9	537	13	146	1888
-	558	190		432	4	130	10	650	15	141	1889
1	773	206		768	2	146	9	653	20	163	1890
2	428	142		680	3	132	10	577	17	155	1891
10	798	276		583	3	103	5	599	20	155	1892

Hamstead until 1847; thus the figures in the above Table do not relate to the same area to the same area as the facts in the other columns.

summaries of 52 or 53 weeks; the numbers for the 41 years 1851-91 relate to calendar years. 1892 are for 52 weeks.

* See note (†) Table 1.

TABLE 13.—Causes of Deaths REGISTERED in London in each of the 11 Years 1882-1892, and in each Quarter of 1892.

YEARS - - - -	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1892.			
												QUARTER ENDING			
	Apr. 2	July 2	Oct. 1	Dec. 31											
CAUSES OF DEATH.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	91 Days.	91 Days.	91 Days.	91 Days.
ALL CAUSES - - -	82905	80578	83368	80504	82276	82205	78849	75683	91243	90216	87749	29931	20044	18160	19614
Small-pox { Vaccinated - } { Unvaccinated - } { No statement }	{ 108 184 139 }	{ 42 55 37 }	{ 380 417 454 }	{ 398 503 502 }	{ 9 8 7 }	{ 1 1 7 }	{ 5 - - }	{ - - 1 }	{ 1 - 3 }	{ 2 3 5 }	{ 15 14 12 }	{ 2 2 3 }	{ 7 10 7 }	{ 4 1 1 }	{ 1 2 1 }
Measles - - - - -	2329	2420	2285	2928	2078	2894	2401	2314	3291	1807	3398	826	1610	575	382
Scarlet Fever - - -	2004	1989	1444	707	688	1447	1209	784	876	539	1174	159	261	365	389
Typhus - - - - -	52	56	31	28	13	18	10	15	11	8	11	3	3	4	1
Relapsing Fever - -	1	-	1	-	1	-	-	1	-	-	1	-	-	1	-
Influenza - - - - -	6	11	6	3	5	5	3	5	652	2336	2264	2076	88	30	68
Whooping-cough - -	4647	1582	3188	2479	2834	2998	2987	1749	3276	2876	2477	1473	630	204	170
Diphtheria - - - -	863	951	973	896	846	961	1301	1588	1417	1361	1885	328	437	487	633
Simple & Ill-defined Fever	90	90	78	82	70	48	33	43	33	42	20	6	4	6	4
Enteric Fever - - -	975	935	936	585	618	606	677	538	618	547	496	71	83	120	162
Simple Cholera - - -	79	83	163	79	137	106	54	62	83	73	87	4	11	65	7
Diarrhoea, Dysentery -	2162	2644	3781	2657	3950	3773	2176	2677	2753	2437	2546	211	326	1747	262
Remittent Fever - -	21	17	20	16	20	14	9	12	7	4	3	-	1	-	2
Hydrophobia - - -	4	8	9	27	9	2	3	2	2	2	-	-	-	-	-
Glanders - - - - -	1	1	-	1	2	4	1	2	1	4	4	-	-	2	2
Cowpox and Vaccination -	14	12	12	7	4	9	4	11	7	14	20	8	2	2	8
Veneral Affections -	517	583	537	543	544	498	516	544	541	472	502	109	114	143	136
Erysipelas - - - -	347	324	381	328	257	341	249	189	250	314	292	53	56	77	86
Pyæmia Septicæmia -	167	147	159	148	134	155	152	105	135	105	110	19	21	36	34
Puerperal Fever - -	287	307	327	323	279	328	275	222	237	222	313	52	55	90	116
Other Zymotic Diseases -	85	98	102	104	70	100	76	81	63	73	88	22	22	29	15
Thrush - - - - -	112	127	119	112	113	80	63	83	77	59	74	26	11	24	13
Worms and other Para- sitical Diseases - - }	26	17	17	17	18	22	14	14	17	15	15	2	4	7	2
Starvation, Want of Breast Milk - - - - - }	127	99	87	92	91	77	61	92	78	78	115	35	20	30	30
Alcoholism, Delirium Tre- mens - - - - - }	224	283	243	180	220	248	298	386	475	485	483	117	109	121	136
Rheumatic Fever, Rheu- matism of Heart - - }	{ 338 160 }	{ 384 145 }	{ 444 140 }	{ 416 129 }	{ 362 104 }	{ 418 115 }	{ 397 108 }	{ 331 131 }	{ 445 114 }	{ 354 113 }	{ 410 117 }	{ 90 31 }	{ 84 32 }	{ 90 23 }	{ 146 31 }
Rheumatism - - - -	149	136	163	176	139	157	138	164	169	161	157	51	41	37	38
Gout - - - - -	113	166	190	170	218	180	290	230	232	267	267	91	91	62	53
Rickets - - - - -	2442	2547	2623	2624	2688	2674	2856	2982	3258	3277	3166	777	801	784	804
Cancer - - - - -	1870	1421	1594	1824	1591	1406	1249	1261	1892	1277	1288	325	277	434	262
Tabes Mesenterica - -	1262	1420	1316	1325	1253	1245	1220	1189	1237	1194	1229	283	352	321	270
Tubercular Meningitis -	8409	8917	8881	8372	8332	7740	7459	7748	9074	8485	8036	2394	1986	1668	1993
Phthisis - - - - -	749	788	994	890	954	912	862	896	950	1035	1012	231	254	267	210
Scrofula, Tuberculosis -	879	508	515	517	521	542	546	528	595	640	632	162	149	145	173
Other Constitutional Dis. -	1745	1861	1911	1837	1930	1975	1938	2025	2249	2349	2394	676	569	563	586
Premature Birth - - -	100	136	126	150	128	138	161	127	113	140	158	38	40	40	46
Alectæsis - - - - -	325	328	353	376	319	352	345	367	348	394	378	107	86	79	106
Congenital Malformations	2554	2730	2473	2552	2651	2458	2485	2591	2711	2567	2282	874	574	483	501
Old Age - - - - -	2085	1993	2141	2149	2133	2038	2386	2078	2313	2306	2306	629	531	502	544
Apoplexy - - - - -	345	333	378	346	369	345	365	360	443	437	395	123	102	89	81
Epilepsy - - - - -	2563	2549	2602	2343	2390	2879	2392	2203	2353	2385	2148	655	449	555	489
Convulsions - - - -	4678	4491	4440	4313	4462	4465	4364	4156	5003	4675	4222	1297	1062	893	970
Other Diseases of Brain, &c.	86	135	121	112	138	98	116	114	144	134	142	36	38	36	32
Diseases of Organs of Special Sense - - }	5204	5394	5472	5755	6117	6290	6259	6460	7546	7340	7061	2242	1599	1888	1832
Diseases of Circulatory System - - - - - }															

* For comparison of the numbers in 1892 with the corrected averages for the ten years 1882-91, see Table 14.

† See note (f), Table 1.

TABLE 13 (cont.)—Causes of Deaths REGISTERED in London in each of the 11 Years 1882-1892; and in each Quarter of 1892.

YEARS	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892*	1892.			
												QUARTER ENDING			
												Apr. 2	July 2	Oct. 1	Dec. 31
CAUSES OF DEATH.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	364 Days.	364 Days.	364 Days.	371 Days.	364 Days.	364 Days.	91 Days.	91 Days.	91 Days.	91 Days.
Croup	873	897	751	674	523	597	494	480	491	404	277	129	43	45	160
Bronchitis	11003	10011	9211	10352	11232	10326	10085	8970	12448	13136	11183	6202	1634	882	2465
Pneumonia	4554	4431	4254	4642	4961	4797	4657	4061	6224	6915	6164	2445	1573	801	1345
Pleurisy	269	292	261	327	261	323	267	239	329	366	305	78	100	52	75
Other Diseases of Respiratory System	1695	1511	1484	1563	1587	1535	1493	1311	1694	1688	1450	619	290	179	362
Dentition	705	768	796	766	698	623	603	545	628	520	479	156	130	103	90
Sore Throat, Quinsy	115	113	102	98	89	107	102	92	120	92	97	23	24	28	22
Enteritis	373	364	336	365	518	509	464	570	745	758	773	147	139	348	142
Peritonitis	347	336	340	330	323	338	334	352	372	365	326	75	82	90	79
Diseases of Liver	1529	1496	1555	1432	1524	1462	1380	1321	1373	1303	1242	317	305	320	300
Others, Digestive System	1424	1500	1662	1468	1561	1430	1380	1425	1540	1623	1518	402	352	361	373
Diseases of Lymphatic System and Ductless Glands	78	100	105	84	115	95	95	108	129	115	87	21	18	19	29
Diseases of Urinary System	1732	1985	1878	1955	2049	2100	2116	2020	2269	2305	2168	608	528	469	563
Diseases of Generative System	317	293	315	273	283	297	270	253	315	280	250	48	55	57	90
Accidents of Childbirth	225	180	193	182	200	163	169	166	212	286	304	80	70	68	86
Diseases of Locomotive System	433	393	381	357	389	345	368	375	392	330	331	95	81	80	75
Diseases of Integumentary System	245	253	279	256	273	273	258	217	293	325	334	72	80	80	102
ACCIDENT OR NEGLIGENCE.†															
By Railways									125		110	23	26	19	32
By Vehicles or Horses									244		269	61	73	76	69
In Ships, &c. (not drowning)									21		30	8	6	4	13
In Building operations									42		40	4	11	16	9
In Conflagrations											30	34	6	18	10
By Burns, Scalds, Explosions	2512	2552	2518	2303	2393	2548	2506	2475	2660						
By Drowning										285		124	73	47	79
By Suffocation in Bed										298		55	103	97	67
By Poison or poisonous Vapours										639		621	112	145	139
Other or not stated Causes															
Battle															
	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-
HOMICIDE.‡															
Murder and Manslaughter	83	76	70	62	68	80	76	79	73	67	67	19	20	14	14
SUICIDE.‡															
Suicide	312	368	367	345	402	398	400	373	351	430	450	87	141	110	102
(EXECUTION.)															
Hanging	2	2	2	4	-	2	1	1	4	3	6	2	-	2	2
ALL OTHER CAUSES	3458	3438	3500	3045	3258	3060	2923	2784	3003	2911	3044	786	657	860	741

* For comparison of the numbers in 1892 with the corrected averages for the ten years 18-2-91, see Table 14.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

TABLE 14.—Deaths in several groups of **Ages** and from different **Causes** REGISTERED in **London** during the 52 Weeks of 1892.

CAUSES OF DEATH.	Corrected* Annual Averages, 1882-91.	TOTAL AT ALL AGES.	Under 5 Years.		5 and under 20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
			Under 1 Year.	1-5.					
ALL CAUSES†	87,029·9	87,749	20,359	14,201	5119	10,595	15,649	17,984	3842
Small-pox †	99·5 123·1 121·6	15 14 12	- 2 1	1 8 2	1 2 1	10 1 8	2 1 5	1 - -	- - -
Measles	2401·6	3308	684	2525	178	8	1	-	-
Scarlet Fever	1233·9	1174	67	737	341	28	6	1	-
Typhus	25·4	11	1	-	1	4	2	8	-
Relapsing Fever	0·4	1	-	-	-	-	-	-	-
Influenza	318·7	2284	77	121	80	313	647	854	172
Whooping-cough	3001·0	2477	910	1484	81	1	-	1	-
Diphtheria	1172·9	1885	121	1195	515	40	11	3	-
Simple and Ill-defined Fever	64·0	20	5	8	3	6	3	4	-
Enteric Fever	739·6	486	5	20	154	179	69	19	-
Simple Cholera	95·6	87	40	20	4	9	4	9	1
Diarrhoea, Dysentery	3049·8	2546	1840	409	13	21	54	182	57
Remittent Fever	14·7	3	-	1	1	-	1	-	-
Hydrophobia	7·7	-	-	-	-	-	-	-	-
Glanders	1·3	4	-	-	-	3	-	-	-
Cowpox and Vaccination	9·9	20	19	1	-	-	-	-	-
Venereal Affections	556·7	502	338	27	2	48	46	59	2
Erysipelas	392·8	292	75	9	5	41	76	71	15
Pyæmia, Septicæmia	147·9	110	13	9	15	31	39	14	-
Puerperal Fever	295·1	313	-	-	11	287	15	-	-
Other Zymotic Diseases	39·6	88	24	19	7	13	8	11	6
Thrush	99·3	74	70	2	-	-	-	1	1
Worms & other Parasitical Diseases	18·6	16	1	8	4	5	-	2	-
Starvation, Want of Breast-milk	92·3	115	95	10	2	1	4	2	2
Alcoholism, Delirium Tremens	820·0	488	-	-	-	192	236	55	-
Rheumatic Fever, Rheumatism of } Heart	412·0	410	1	8	160	128	74	38	1
Rheumatism	132·4	117	-	2	4	12	20	70	9
Gout	163·2	187	-	-	-	7	46	94	10
Rickets	216·1	287	100	178	8	-	-	1	-
Cancer	2861·6	3166	2	15	28	271	1418	1843	94
Tabs Mesenterica	1459·7	1298	800	344	90	88	20	5	1
Tubercular Meningitis	1380·0	1229	371	599	225	28	6	-	-
Phthisis	8769·4	8036	102	202	675	3818	2716	517	6
Scrofula, Tuberculosis	949·3	1012	301	308	208	118	58	18	1
Other Constitutional Diseases	556·2	632	36	27	44	134	186	197	16
Premature Birth	2083·4	2394	2394	-	-	-	-	-	-
Atelectasis	188·7	158	158	-	-	-	-	-	-
Congenital Malformations	368·7	378	341	22	9	5	1	-	-
Old Age	2709·4	2382	-	-	-	-	7	1108	1267
Apoplexy	2237·3	2206	27	13	24	120	680	1139	263
Epilepsy	391·2	395	10	9	60	126	98	89	5
Convulsions	2339·8	2148	1836	294	17	-	1	-	-
Other Diseases of Brain, &c.	4734·6	4222	516	564	254	457	909	1336	206
Diseases of Organs of Special Sense	125·9	142	31	26	49	20	8	5	3
Diseases of Circulatory System	6500·8	7061	182	70	493	927	2093	2866	450

* The annual averages have been raised for increase of population, and reduced for comparison with the deaths recorded in the 52 weeks of 1892. For the population in each group of ages, estimated to the middle of 1892, see Table 19.

† Those cases of small-pox only are returned as "Vaccinated" or as "Unvaccinated" which are so certified by registered medical men. When the medical attendant does not certify that the deceased has, or has not, been vaccinated, or when the cause of death is not certified by a registered practitioner, the case is returned under the heading "No Statement."

‡ See note † Table 1.

TABLE 14 (continued).—Deaths in several groups of **Ages** and from different **Causes**
REGISTERED in **London** during the 52 Weeks of 1892.

CAUSES OF DEATH.	Corrected* Annual Averages, 1882-91.	TOTAL AT ALL AGES.	Under 5 Years.		5 and under 20.	20 and under 40.	40 and under 60.	60 and under 80.	80 and upwds.
			Under 1 Year.	1-5.					
Croup - - - - -	642'8	277	33	212	33	-	-	-	-
Bronchitis - - - - -	11230'0	11183	2499	1713	110	294	1704	4024	839
Pneumonia - - - - -	5171'9	6164	1188	1639	280	699	1231	1007	160
Pleurisy - - - - -	308'4	305	17	34	23	71	91	61	8
Other Diseases of Respiratory System	1633'8	1450	247	228	63	134	335	598	55
Dentition - - - - -	698'8	479	233	216	-	-	-	-	-
Sore Throat, Quinsy - - - - -	105'3	97	15	35	13	8	12	5	1
Enteritis - - - - -	525'8	776	452	82	43	59	62	68	10
Peritonitis - - - - -	361'3	326	18	25	74	103	61	42	3
Diseases of Liver - - - - -	1506'0	1242	102	9	15	167	540	387	22
Others, Digestive System - - - - -	1583'5	1318	344	89	95	183	329	438	44
Disease of Lymphatics, &c. - - - - -	107'7	87	4	4	13	19	32	13	2
Diseases of Urinary System - - - - -	2139'2	2168	25	63	88	368	723	790	111
Diseases of Generative System - - - - -	304'4	250	8	5	6	82	103	40	6
Accidents of Childbirth - - - - -	207'7	304	-	-	8	259	37	-	-
Diseases of Locomotive System - - - - -	395'6	331	26	35	106	59	61	41	3
Diseases of Integumentary System	239'9	334	95	17	6	22	64	111	19
VIOLENT DEATHS.†									
(ACCIDENT.)									
By Railways - - - - -	2648'2	110	-	-	17	40	40	13	-
By Vehicles or Horses - - - - -		269	3	42	64	60	61	42	7
In Ships, Boats, Docks (exclusive of Drowning) - - - - -		30	-	-	-	14	12	4	-
In Building Operations - - - - -		40	-	-	-	14	19	3	-
In Conflagrations - - - - -		34	1	9	8	10	5	1	-
By Burns, Scalds, Explosions - - - - -		323	23	149	59	21	27	31	13
By Drowning - - - - -		322	16	11	77	90	90	36	-
By Suffocation in Bed - - - - -		621	605	11	2	1	1	1	-
By Poisons or Poisonous Vapours - - - - -		90	-	11	13	29	31	5	1
Other or not stated Causes - - - - -		868	131	81	91	137	199	182	47
(VIOLENCE OTHER THAN ACCIDENTAL.)									
Homicide - - - - -	77'1	67	37	3	4	13	9	1	-
Suicide - - - - -	393'8	480	-	-	17	190	164	76	3
Execution - - - - -	2'2	6	-	-	-	4	1	1	-
OTHER CAUSES - - - - -	3299'2	3044	2616	171	22	30	60	95	20

* See note * on preceding page.

† The evidence at inquests is often insufficient to enable the coroner to certify whether a violent death resulted from accident, murder, manslaughter, or suicide. All such cases are classed under "accident or negligence."

TABLE 15.—Deaths REGISTERED in the London Registration Districts, and Mean Temperature and Registered Sunshine at Greenwich, in each of the 11 Years 1882-1892.

REGISTRATION DISTRICTS.	AREA in Acres.*	DENSITY, Persons to an Acre, 1891.	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892
Mean Temperature - - -	—	—	49°·7	49°·4	50°·7	48°·6	48°·7	47°·8	47°·7	48°·8	49°·6	49°·4	48°·
Registered Sunshine in Hours -	—	—	1245	1241	1115	1261	1228	1401	1068	1156	1255	1222	1277
LONDON - - -	77,410	54	83,015	81,108	82,448	80,978	82,691	82,443	79,244	76,162	89,268	90,597	87,749
1g PADDINGTON - - -	1251	94	1946	1974	1974	2040	2062	2023	2152	1925	2276	2347	2298
1b KENSINGTON - - -	2190	76	3074	3030	3033	3193	3101	3126	3082	2710	3309	3634	3267
2 FULHAM - - -	4209	45	2500	2618	2696	2761	2731	3201	3207	3183	3682	3644	3873
3 CHELSEA - - -	861	112	2057	2066	2065	2208	2144	2188	1997	1981	2064	2232	2162
4 ST. GEO. HANOVER SQ. -	2051	65	3086	3074	3040	2916	3103	2923	2855	2713	3090	2984	2801
5 WESTMINSTER - - -	216	173	880	775	841	772	788	734	694	692	691	642	563
6 MARYLEBONE - - -	1506	95	3115	2993	2907	2833	2880	2637	2606	2363	2797	2834	2671
7 HAMPSHIRE - - -	2248	30	666	690	841	770	774	771	778	835	1064	1019	1168
8 PANCRAZ - - -	2672	88	5077	4988	5131	5005	5058	5085	4782	4664	5166	5384	5200
9 ISLINGTON - - -	3107	103	5643	5561	5515	5729	5510	5756	5206	5083	5962	6326	5942
10 HACKNEY - - -	3935	58	3633	3756	3964	3793	3789	3347	3823	3613	4399	4417	4470
11 ST. GILES - - -	245	162	1011	1009	1029	890	894	870	694	704	821	893	718
12 STRAND - - -	433	63	1037	1026	1018	947	969	912	923	885	910	1052	923
13 HOLBORN - - -	816	173	3187	2989	3039	2897	2964	3004	2937	2330	3038	3284	2957
14 LONDON CITY - - -	731	52	1450	1448	1390	1422	1343	1361	1308	1177	1380	1285	1190
15 SHOREDITCH - - -	648	191	3247	3023	2873	2950	3216	3071	2962	2635	3248	3192	2921
16 BETHNAL GREEN - - -	755	171	3083	3082	2849	2307	3000	2845	2852	2620	2876	3107	2800
17 WHITECHAPEL - - -	405	184	2344	2257	2200	2084	2261	2249	2181	2176	2492	2437	2337
18 ST. GEO. IN-THE-EAST -	244	137	1197	1248	1185	1237	1187	1161	1120	1018	1309	1102	1018
19 STEPNEY - - -	569	101	1355	1396	1316	1297	1317	1333	1354	1266	1500	1320	1365
20 MILE END OLD TOWN -	679	158	2386	2263	2193	2091	2142	2129	1987	1948	2263	2070	2234
21 POPLAR - - -	2648	63	3979	3734	3719	3569	3617	3521	3521	3274	3989	3770	3846
22 ST. SAVIOUR SOUTHWARK -	1170	173	4754	4366	4647	4229	4555	4469	3597	3797	4171	4187	3903
23 ST. OLAVE SOUTHWARK -	1728	79	3514	3310	3382	3031	3397	3359	3163	3109	3461	3552	3336
24 LAMBETH - - -	4060	68	2687	5402	5451	5212	5481	5430	5182	5166	5819	6065	6794
25 WANDSWORTH - - -	11707	26	2845	4105	4203	4202	4424	4317	4330	3973	4905	4787	4978
26 CAMBERWELL - - -	4450	53	3777	3428	3845	3765	3995	4140	4187	4193	4624	4876	4942
27 GREENWICH - - -	3301	44	3026	2925	3193	3059	3005	3117	3017	3065	3320	3498	3453
28 LEWISHAM - - -	10794	9	1074	1054	1117	1129	1175	1176	1216	1123	1254	1326	1358
29 WOOLWICH - - -	7231	15	1380	1538	1439	1534	1711	1645	1559	1717	1906	2013	1801
METROPOLITAN HOSPITALS) AND ASYLUMS OUTSIDE REGISTRATION LONDON †)	—	—	—	—	403	536	28	20	27	14	1482	1283	1454

NOTE. — This Table is compiled from the Abstracts which appear in the Registrar General's Annual Reports, excepting for the year 1892, for which the numbers are derived from the Weekly Returns embracing 52 weeks.

* These areas include 2718 acres of tidal water, or of the river Thames. For area of Greater London see Table 7.

† For the years 1884-89 the figures refer to the Metropolitan Asylum Small-pox and Fever Hospitals only; for the years 1890-1892 the London County, London City, and Metropolitan Lunatic and Imbecile Asylums are added.

TABLE 16.—LONDON. POPULATION; and BIRTHS and DEATHS in REGISTRATION DISTRICTS during the 52 Weeks of 1892.

REGISTRATION DISTRICTS.		Enumerated Population, 1891 (unrevised).	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	The DEATHS registered in the 52 Weeks include																			
					Deaths of		Deaths from															Inquest Cases.	Deaths in Public Institutions.	Unclassified Causes of Death.
							Infants under 1 Year of Age.	Persons aged 1 to 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Typhus Fever.	Enteric (or Typhoid) Fever.	Simple continued Fever.	Diarrhoea.	Cholera.	Violence.					
LONDON		4211056	131535	87,749	20359	21826	41	3393	1174	1885	2477	11	436	20	2546	87	3230	6881	22260	304				
WEST DISTRICTS		740725	10566	14964	3170	4083	1	730	145	260	306	-	51	5	442	13	531	1080	4120	71				
NORTH DISTRICTS		994207	29,54	19451	4269	5056	5	688	432	643	500	2	128	2	537	21	690	1629	4575	36				
CENTRAL DISTRICTS		247140	7274	5788	1278	1219	-	219	19	114	126	-	23	1	138	4	315	591	1809	23				
EAST DISTRICTS		705012	26135	16321	4238	3598	-	640	113	294	657	2	89	5	503	21	677	1938	4452	33				
SOUTH DISTRICTS		1523972	49,06	29571	7398	7385	5	1114	387	567	885	7	143	7	924	23	1004	1746	5760	641				
METROPOLITAN HOSPITALS AND ASYLUMS OUTSIDE REGISTRATION LONDON		-	-	1454	6	505	80	2	73	7	3	-	2	-	2	-	8	15	1454	-				
WEST DISTRICTS.																								
1a. PADDINGTON		117838	2936	2298	438	715	-	81	5	32	10	-	12	-	73	1	114	200	506	3				
1b. KENSINGTON		136321	3704	3267	590	1081	-	110	9	19	63	-	13	1	67	4	78	171	1002	14				
2. FULHAM		188877	6410	3873	1054	827	-	262	118	140	120	-	6	4	156	3	105	266	710	14				
3. CHELSEA		93272	2784	2142	406	524	1	110	12	21	88	-	5	-	88	-	63	109	683	4				
4. ST. GEO. HANOVER SQ.		134172	2894	2891	464	771	-	127	6	47	41	-	13	-	45	3	160	222	1017	31				
5. WESTMINSTER		87295	284	683	128	145	-	40	-	1	14	-	2	-	13	2	16	42	107	5				
NORTH DISTRICTS.																								
6. MARYLEBONE		142381	4344	2671	557	745	-	137	5	28	37	1	16	-	69	5	94	220	510	3				
7. HAMPSTEAD		68425	1456	1163	186	274	-	28	147	155	22	-	17	-	15	-	41	63	414	5				
8. PANCRA8		23437	7140	5200	1177	1323	-	209	14	66	155	-	24	-	141	6	242	475	1429	21				
9. ISLINGTON		319433	9556	5942	1383	1591	5	178	26	102	163	-	23	1	185	5	173	447	1050	7				
10. HACKNEY		229581	6758	4470	934	1123	-	116	240	292	123	1	43	1	127	5	132	321	1142	-				
CENTRAL DISTRICTS.																								
1. ST. GILES		39778	1129	718	163	203	-	47	-	3	11	-	8	-	19	-	16	39	136	2				
2. STRAND		27473	517	923	180	204	-	39	3	26	10	-	1	-	8	-	65	111	508	5				
3. HOLBORN		141544	4963	2957	852	567	-	112	12	50	83	-	8	1	100	2	107	271	672	7				
4. LONDON CITY		38345	665	1199	133	245	-	21	4	35	22	-	6	-	11	2	127	170	683	9				
EAST DISTRICTS.																								
5. SHOREDITCH		124009	4187	2921	760	777	-	101	13	38	103	1	9	2	103	3	91	244	772	4				
6. BETHNAL GREEN		129134	4911	2500	743	538	-	131	15	63	126	-	12	-	75	4	80	230	588	1				
7. WHITECHAPEL		74462	3053	2337	507	381	-	65	6	52	49	1	24	-	46	4	166	362	1276	2				
8. ST. GEO.-IN-THE-EAST		45546	1877	1018	292	203	-	60	9	8	21	-	3	-	49	-	44	128	287	5				
9. STEPNEY		57599	1930	1365	449	172	-	73	15	21	73	-	8	-	60	1	67	164	276	4				
10. MILE END OLD TOWN		107565	4013	2234	577	590	-	63	16	67	107	-	12	-	68	4	50	227	269	16				
1. POPLAR		166697	5864	3846	940	882	-	147	39	55	178	-	21	3	112	5	179	583	884	1				
SOUTH DISTRICTS.																								
2. ST. SAVIOUR SOUTHWARK		202537	7087	3903	1189	789	-	244	15	32	151	1	12	2	130	1	91	236	293	106				
3. ST. OLAVE SOUTHWARK		136456	4958	3236	802	620	-	127	9	34	76	2	15	-	82	3	232	311	921	103				
4. LAMBETH		275202	9226	5794	1303	1524	-	192	123	213	134	3	34	2	164	12	219	307	1536	142				
5. WANDSWORTH		307389	9217	4978	1331	1342	-	163	24	72	183	-	17	3	189	4	145	323	499	43				
6. CAMBERWELL		235512	7490	4942	1160	1412	-	208	22	43	134	-	16	-	143	2	89	232	1194	23				
7. GREENWICH		165417	5413	3459	807	818	4	119	173	115	94	1	34	-	125	1	120	182	383	89				
8. LEWISHAM		94335	2409	1558	315	459	-	17	2	18	61	-	4	-	36	-	40	65	139	16				
9. WOOLWICH		107324	3516	1601	431	471	1	30	11	35	46	-	11	-	50	5	68	120	272	49				
METROPOLITAN HOSPITALS AND ASYLUMS OUTSIDE REGISTRATION LONDON		-	-	1454	6	505	80	2	73	7	3	-	2	-	2	-	8	15	1454	-				

TABLE 17. LONDON.—POPULATION; and BIRTHS and DEATHS in REGISTRATION SUB-DISTRICTS during the 52 Weeks of 1892.

The DEATHS registered in the 52 Weeks include																						
REGISTRATION SUB-DISTRICTS.	Enumerated Population, 1891 (unrevised)	Total Births in 52 Weeks.	Total Deaths in 52 Weeks.	Deaths of																Inquest Cases.	Deaths in Public Institutions.	Total Causes
				Deaths of		Deaths from																
				Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Typhus Fever.	Erysipelas (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoea.	Cholera.	Violence.						
WEST DISTRICTS.																						
St. Mary Paddington WHH	84156	2458	1553	361	492	-	72	3	9	25	-	7	-	62	1	52	112	251				
St. John Paddington H	33632	480	745	77	223	-	9	2	23	5	-	5	-	11	-	62	88	345				
Kensington Town Ww	118769	3661	2571	517	882	-	93	9	17	49	-	8	1	59	4	60	133	822				
Brompton HH	47552	647	696	73	199	-	17	-	2	14	-	5	-	8	-	18	38	180				
St. Peter Hammersmith	8585	209	136	30	44	-	7	1	1	5	-	-	-	8	-	5	10	-				
St. Paul Hammersmith H	88652	2705	1616	439	363	-	121	3	47	46	-	3	3	59	-	54	127	139				
Fulham Ww	91610	8499	2121	585	420	-	134	109	92	69	-	3	1	89	3	46	129	580				
Kensal Town	21787	724	314	106	53	-	12	4	9	16	-	-	-	11	-	9	20	-				
Chelsea North WHHHHH	41657	1218	1142	187	301	1	59	4	6	15	-	1	-	27	-	29	64	538				
Chelsea South HH	32828	812	706	203	170	-	39	4	6	7	-	4	-	50	-	25	45	150				
Mayfair WH	23734	266	590	96	281	-	6	-	2	5	-	4	-	4	-	13	27	394				
Belgrave WHHH	54028	1253	1162	201	297	-	44	4	24	17	-	6	-	19	2	102	132	365				
St. John Westminster HH	34092	1000	579	153	103	-	64	1	4	16	-	1	-	9	1	18	47	18				
St. Margaret Westminster H	21668	375	470	69	87	-	13	1	17	3	-	2	-	13	-	27	46	240				
St. James Westminster WHH	24993	529	375	70	118	-	16	-	-	7	-	1	-	7	2	11	30	88				
St. Anne Soho HHHHHH	12302	305	188	53	27	-	24	-	1	7	-	1	-	6	-	5	12	19				
NORTH DISTRICTS.																						
All Souls (Myleb) HHHHHHH	24481	541	719	103	166	-	13	1	16	11	-	6	-	9	-	35	60	354				
Cavendish Square HHH	18220	200	173	21	56	-	2	-	1	1	-	1	-	2	-	6	9	7				
Rectory (Marylebone) W	20019	583	357	89	117	-	11	1	1	5	-	2	-	12	-	10	30	99				
St. Mary (Marylebone) HHHH	19238	1384	387	90	117	-	25	1	1	3	-	-	-	11	1	6	26	49				
Christ Church (Marylebo.) H	33323	878	550	152	107	-	61	2	5	15	-	-	-	20	2	18	49	-				
St. John (Marylebone) HH	32100	753	485	102	182	-	25	-	4	2	-	1	-	15	2	19	46	1				
Hampstead WwHHHH	68125	1456	1168	186	274	-	28	147	155	22	-	17	-	15	-	46	68	444				
Regent's Park H	36592	1007	578	138	156	-	35	-	2	22	-	3	-	16	-	22	46	6				
Tottenham Court wHHHH	26319	688	901	147	203	-	16	1	25	15	-	5	-	20	2	49	91	503				
Gray's Inn Lane HHH	27448	838	650	138	124	-	19	3	11	18	-	8	-	14	-	55	87	194				
Somers Town HH	32841	1040	670	182	117	-	42	1	6	22	-	-	-	31	-	26	53	65				
Camden Town WH	15461	646	611	107	257	-	39	1	1	24	-	-	-	10	-	40	72	339				
Kentish Town WW	95776	2921	1790	455	466	-	78	8	21	54	-	5	-	50	4	50	126	262				
Upper Holloway WWWwHHH	90272	2753	2389	422	708	4	57	6	54	43	-	8	1	58	2	68	151	1023				
Islington South-west H	105557	3389	1630	479	849	-	67	12	21	51	-	10	-	73	3	57	154	14				
Islington South-east	64411	1872	1022	266	240	1	50	5	13	45	-	5	-	28	-	34	87	-				
Highbury HHH	59193	1542	901	193	299	-	24	3	14	24	-	5	-	28	-	17	55	13				
Stoke Newington H	30925	755	431	82	161	-	11	5	8	6	-	2	-	4	-	5	21	-				
Stamford Hill	17759	429	225	61	74	-	5	3	3	1	-	3	-	7	-	7	11	-				
West Hackney H	42602	1214	685	142	176	-	13	8	12	27	-	7	-	15	1	28	58	116				
Hackney WwWH	99486	3032	2441	458	551	-	57	216	250	66	-	28	1	69	4	73	169	1021				
South Hackney wH	41769	1228	688	191	161	-	30	8	19	23	-	3	-	32	-	19	62	5				
CENTRAL DISTRICTS.																						
St. George Bloomsbury	16695	328	212	47	69	-	9	-	2	3	-	5	-	3	-	6	10	-				
St. Giles South WH	18450	359	313	71	95	-	29	-	1	3	-	2	-	10	-	8	21	98				
St. Giles North H	9633	242	193	45	39	-	9	-	-	5	-	1	-	6	-	2	8	38				
St. Martin-in-the-Fields HH	14574	246	331	46	63	-	8	2	11	-	-	-	-	6	-	37	60	141				
St. Mary-le-Strand H	5706	124	123	33	22	-	10	-	1	2	-	-	-	1	-	7	16	15				
St. Clement Danes WH	7193	147	363	47	53	-	21	1	14	-	-	1	-	1	-	20	31	246				
Strand Un. Work., Edmonton	-	-	106	4	66	-	-	-	-	8	-	-	-	-	-	1	5	106				
St. Geo. the Martyr HHHHHH	17920	441	604	148	78	-	23	3	35	3	-	2	-	27	-	18	41	325				
St. Andrew Eastern W	8705	296	213	69	49	-	7	-	-	8	-	-	-	3	-	5	10	64				
Saffron Hill H	6614	148	100	26	28	-	2	2	1	9	-	1	-	3	-	7	16	-				
St. James Clerkenwell	18083	543	274	91	38	-	5	-	2	9	-	-	-	7	-	16	39	-				
Amwell	16832	621	262	71	58	-	11	1	4	5	-	1	-	9	-	9	27	-				
Pentonville	16824	523	292	93	54	-	18	2	1	16	-	-	-	13	1	8	24	-				
Goswell Street	15375	587	293	88	44	-	9	1	1	11	-	-	-	9	-	9	26	-				
City Road HHHH	29148	1528	653	211	107	-	27	2	5	29	-	-	1	24	1	29	63	112				
Whitecross Street	8278	262	127	32	23	-	9	-	1	5	-	-	-	2	-	3	19	-				
Finsbury	4985	114	63	23	15	-	1	1	-	2	-	1	-	4	-	3	6	-				
Holborn Un. Work., Mitcham	-	-	71	-	53	-	-	-	-	-	-	-	-	-	-	1	71	-				
St. Botolph H	8944	286	129	28	42	-	6	3	4	3	-	2	-	-	-	4	9	4				
Cripplegate	4373	84	61	12	22	-	-	-	-	4	-	-	-	-	-	4	10	-				
St. Sepulchre H	4408	61	714	53	99	-	6	-	30	11	-	-	-	7	2	94	111	636				
St. Bride W	6918	114	104	21	21	-	8	-	-	2	-	-	-	4	-	10	16	8				
Alhambra Barking	10625	116	115	15	40	-	-	1	1	2	-	-	-	-	-	12	19	-				
Broad Street H	8377	84	32	4	8	-	1	-	-	-	-	-	-	-	-	2	3	-				
City of London Asylum, Stone	-	-	85	-	13	-	-	-	-	-	-	-	-	-	-	1	2	35				

Note.—The letters placed against the names of the sub-districts denote Public Institutions situated therein, namely:—*W*—Workhouse; *W*—Workhouse Establishment receiving inmates from other districts than that in which it stands; *H*—Hospital; *L*—Lunatic Asylum; *L*—Private Lunatic Asylum in which paupers are received. For detailed list of the several Institutions, see Table 20.

TABLE 17 (continued).—LONDON.—POPULATION; and BIRTHS and DEATHS in REGISTRATION SUB-DISTRICTS, during the 52 Weeks of 1892.

		The DEATHS registered in the 52 Weeks include																			
REGISTRATION SUB-DISTRICTS.		Enumerated Population, 1891 (unrevised).	52 Total Burials Weeks.	52 Total Deaths Weeks.	Deaths of		Deaths from											Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes of Death.	
					Infants under 1 Year of Age.	Persons aged 60 Years and upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Typhus Fever.	Zante (or Typhoid) Fever.	Simple con- tinued Fever.	Diarrhoea.	Cholera.	Violence.				
EAST DISTRICTS.																					
Shoreditch South <i>HL*</i>	-	20098	540	407	99	89	-	14	2	6	15	-	-	-	4	-	9	38	77	2	
Hoxton New Town <i>w</i>	-	28313	1132	739	184	286	-	38	4	2	28	-	2	1	25	1	22	50	239	1	
Hoxton Old Town	-	28354	1017	495	157	91	-	14	1	6	12	-	2	-	19	2	20	65	-	-	
Haggerston <i>WH</i>	-	48244	1792	1260	320	311	-	41	6	24	50	-	1	6	55	-	40	91	456	-	
Bethnal Green North <i>H</i>	-	31529	1036	915	313	130	-	52	9	16	50	-	9	-	31	1	26	87	21	-	
Bethnal Green South	-	33491	1262	957	211	73	-	47	1	17	29	-	2	-	25	-	32	61	-	-	
Bethnal Green East <i>WHL*</i>	-	41123	1593	1438	219	385	-	32	5	30	47	-	-	-	19	3	28	83	567	1	
Spitalfields	-	22456	803	316	116	48	-	17	3	6	14	-	-	-	14	-	14	59	-	2	
Mile End New Town <i>W</i>	-	17908	1026	66	144	137	-	22	2	1	11	-	-	-	12	3	15	71	418	-	
Whitechapel Church <i>H</i>	-	20298	799	1158	185	129	-	21	1	45	18	-	21	-	17	1	122	207	858	-	
Goodman's Fields	-	13800	425	202	61	37	-	5	-	-	6	-	1	-	3	-	15	25	-	-	
St. George's North	-	37733	1538	630	210	73	-	45	9	8	19	-	2	-	31	-	23	93	-	5	
St. John, St. Geo. East <i>W</i>	-	7813	339	398	62	130	-	14	-	-	2	-	1	-	18	-	19	35	287	-	
Shadwell <i>H</i>	-	10490	324	473	187	28	-	15	2	8	15	-	-	-	28	-	24	49	276	-	
Ratcliff	-	14928	465	304	74	45	-	30	6	3	24	-	-	-	10	-	14	40	-	-	
Limchouse	-	32181	1140	558	188	102	-	28	7	10	34	-	-	-	12	1	57	75	-	3	
Mile End Old Town Western <i>H</i>	-	36820	1448	671	213	123	-	28	6	29	38	-	-	-	25	3	15	73	5	13	
Mile End Old Tn. Eastn. <i>W W w w</i>	-	68945	2365	1563	364	467	-	35	10	23	84	-	-	-	43	1	35	154	364	3	
Bow <i>L*</i>	-	40878	1307	778	205	175	-	19	6	29	30	-	5	-	22	3	22	79	61	-	
Bromley <i>w w w w</i>	-	70002	2853	1964	415	505	-	86	18	11	84	-	11	1	60	-	30	269	744	-	
Poplar <i>W W</i>	-	56317	1909	1104	320	216	-	43	15	15	64	-	5	2	80	-	77	235	79	1	
SOUTH DISTRICTS.																					
Christchurch Southwark <i>WH</i>	-	13264	421	214	50	71	-	5	-	2	3	-	-	-	7	1	7	15	23	6	
St. Saviour Southwark	-	13898	423	239	76	34	-	16	-	1	10	-	1	-	6	-	17	24	-	11	
Kent Road	-	21887	813	428	127	60	-	25	4	2	13	-	2	1	18	-	6	29	-	7	
Borough Road <i>WH</i>	-	16624	630	433	161	38	-	26	-	2	4	88	-	2	19	-	9	33	156	10	
London Road <i>HL</i>	-	21221	700	855	105	59	-	15	1	2	7	-	-	-	7	-	7	27	15	18	
Trinity Newington	-	25501	984	529	273	87	-	38	3	4	13	-	-	-	13	-	11	29	-	18	
St. Peter Walworth <i>W</i>	-	61293	2080	1174	345	301	-	93	93	12	39	-	2	1	40	-	26	59	192	28	
St. Mary Newington	-	27866	1030	481	142	83	-	32	2	5	28	-	1	3	15	-	8	50	-	16	
St. Olave Southwark <i>WH</i>	-	12894	463	832	121	114	-	22	-	20	8	-	-	-	8	-	134	147	682	17	
Leather Market	-	14999	601	822	130	30	-	15	-	2	6	-	-	-	12	-	19	31	-	20	
St. Mary Magdalen	-	35691	615	329	93	66	-	16	3	2	9	-	1	1	6	-	7	14	13	18	
St. James Bermondsey	-	54028	1981	881	290	169	-	35	4	8	35	-	-	-	15	-	19	44	-	32	
Rotherhithe <i>WH</i>	-	39074	1113	972	192	241	-	38	2	4	19	-	1	4	35	3	46	67	332	21	
Waterloo Road First <i>H</i>	-	14031	489	281	85	30	-	21	2	3	6	-	1	1	16	-	9	15	57	6	
Waterloo Road Second <i>H</i>	-	14644	984	274	94	58	-	12	1	8	5	-	-	-	11	-	14	24	9	4	
Lambeth Church First <i>H</i>	-	18024	610	905	190	123	-	18	2	71	10	-	-	-	29	1	113	127	614	18	
Lambeth Church Second <i>W</i>	-	39147	1639	1283	399	320	-	34	3	4	39	-	1	-	29	7	23	43	610	32	
Kennington First <i>H</i>	-	50583	1733	843	226	215	-	45	3	12	33	-	-	6	1	17	2	22	40	6	
Kennington Second	-	39708	1063	614	213	213	-	10	6	8	6	-	-	-	14	1	11	15	-	25	
Brixton <i>w</i>	-	73405	2051	1305	287	335	-	42	109	107	21	-	1	22	-	37	1	21	85	233	32
Norwood <i>W</i>	-	25657	662	820	69	108	-	10	1	5	14	-	-	-	11	-	6	9	7	11	
East Battersea	-	67144	2407	1059	373	141	-	32	10	18	49	-	2	-	43	2	41	100	-	16	
West Battersea <i>W w H</i>	-	83314	2583	1633	418	467	-	65	5	10	51	-	5	1	52	2	47	87	410	4	
Clapham <i>H H</i>	-	43898	1043	699	143	177	-	20	1	10	26	-	-	6	1	17	-	23	42	15	6
Wandsworth <i>WH</i>	-	46720	1525	752	224	185	-	30	5	26	28	-	-	1	41	-	19	48	35	-	
Putney	-	17771	428	246	74	73	-	-	-	-	17	-	-	-	17	-	9	15	-	-	
Streatham <i>w</i>	-	48742	1281	689	189	239	-	28	3	8	18	-	-	-	19	-	11	51	89	14	
Dulwich	-	6809	75	73	10	31	-	1	1	1	-	-	-	-	1	-	2	2	-	3	
Camberwell <i>W w L* L*</i>	-	81654	2377	2250	323	333	-	70	7	92	34	-	-	-	47	-	33	64	1107	29	
Peckham <i>W W</i>	-	83483	2744	1502	454	358	-	79	8	10	59	-	-	-	65	1	27	73	87	22	
St. George (Camberwell)	-	63666	2284	1117	363	185	-	58	0	15	41	-	-	-	35	1	27	63	-	39	
Deptford North	-	12943	593	208	85	43	-	23	4	13	29	-	-	-	34	-	27	39	-	27	
Deptford Central <i>w</i>	-	108173	1486	989	245	194	-	42	165	91	22	-	-	-	45	-	19	35	297	28	
Deptford South	-	1722	469	104	154	5	-	11	2	5	14	-	-	-	3	-	9	16	-	11	
Greenwich West <i>H</i>	-	22007	670	332	110	92	-	3	2	-	8	-	-	-	14	1	20	32	27	12	
Greenwich East <i>WH</i>	-	35237	1092	1026	145	361	-	40	6	6	15	-	1	8	19	-	45	60	559	11	
Eltham <i>H</i>	-	5692	193	68	12	28	-	-	-	-	-	-	-	-	4	-	5	5	-	1	
Lee <i>H</i>	-	23541	497	263	53	111	-	3	-	-	-	-	-	-	5	-	9	18	14	2	
Lewisham <i>WH</i>	-	39050	977	679	139	187	-	7	2	3	27	-	-	-	16	-	16	24	132	8	
Sydenham <i>H</i>	-	34162	878	446	111	133	-	7	-	10	26	-	-	-	11	-	10	23	12	6	
Charlton <i>H</i>	-	14040	348	245	45	78	1	1	2	2	1	-	2	2	3	-	19	15	50	6	
Woolwich Dockyard	-	19606	529	297	76	84	-	7	2	3	7	-	-	-	3	1	9	26	-	-	
Woolwich Arsenal <i>HHHH</i>	-	21342	707	630	99	71	-	10	-	10	8	-	-	-	13	2	23	39	17	13	
Plumstead West <i>H</i>	-	15889	504	234	45	60	-	11	2	10	8	-	-	-	3	-	6	11	-	10	
Plumstead East <i>W</i>	-	36567	1428	635	168	178	-	10	6	20	20	-	2	-	21	2	20	33	205	12	
Banstead Asylum	-	-	-	241	1	82	-	-	-	-	-	-	-	-	-	-	1	1	241	-	
Caterham Asylum	-	-	-	177	-	84	-	-	-	-	-	-	-	-	1	-	1	1	177	-	
Cane Hill Asylum	-	-	-	139	-	35	-	-	-	-	-	-	-	-	-	-	8	7	139	-	
Hospital Ships and Camp	-	-	-	3	40	30	-	-	26	-	-	-	-	-	-	-	-	-	35	-	
Darenth Asylum	-	-	-	110	-	35	-	-	-	3	-	-	-	-	-	-	1	1	110	-	
Hanwell Asylum	-	-	-	178	-	63	-	-	-	-	-	-	-	-	1	-	1	178	-	-	
Coincy Hatch Asylum	-	-	-	251	-	91	-	-	-	-	-	-	-	-	-	-	3	4	251	-	
Winchmere Hill Hospital	-	-	-	36	-	-	-	2	25	7	-	-	-	-	-	-	-	-	36	-	
Leavesden Asylum	-	-	-	239	-	109	-	-	-	-	-	-	-	-	-	-	-	-	239	-	
N.E. Hospital	-	-	-	27	-	2	-	-	26	-	-	-	-	-	-	-	-	-	27	-	

Outer Ring: Births and Deaths in Registration Sub-districts.

TABLE 18.—OUTER RING (excluding Metropolitan Workhouses, Hospitals, and Asylums).—AREA; POPULATION; BIRTHS AND DEATHS Registered during the 52 Weeks of 1892.

District and Sub-district Numbers.	REGISTRATION SUB-DISTRICTS.	Area in Acres, including Tidal Water and Foreshore.	Enumerated Population, 1891 (unrevised).	BIRTHS.	DEATHS.	The DEATHS registered in the 52 Weeks include																	
						Deaths of		Deaths from															
						Infants under 1 Year of Age.	Persons aged 60 Years & upwards.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping-cough.	Fever.	Diarrhoea.	Cholera.	Violence.	Inquest Cases.	Deaths in Public Institutions.	Uncertified Causes or Deaths.				
LONDON—OUTER RING						370,924	1,422,276	44,580	23,143	6009	6321	10	888	207	433	673	146	820	28	660	1232	1960	418
50: 1	Carshalton WHH - -	12228	26108	598	302	66	74	-	24	2	16	6	-	8	-	11	11	43	1				
2	Epsom, part of * WHH - -	9971	12503	278	227	38	108	-	-	-	4	1	-	2	-	2	6	67	6				
37: 1	Godstone, part of * W - -	2754	1698	57	18	4	3	-	-	-	-	-	-	-	-	-	-	-	-				
38: 1	Croydon WHH - -	20851	128701	3391	2061	430	651	1	58	10	41	73	8	44	2	42	132	261	1				
2	Mitcham W - -	11697	23088	629	315	82	98	1	16	3	4	4	3	22	-	13	23	4	15				
39: 1	Wimbledon HHH - -	8220	25758	734	330	84	109	1	5	1	7	4	-	7	-	5	15	12	-				
2	Kingston WHH - -	8549	44765	1295	679	156	225	-	12	3	10	7	4	21	-	22	42	93	6				
8	Esher, part of * HH - -	6601	12059	323	175	39	43	-	2	-	8	10	1	-	-	2	7	10	-				
4	Hampton H - -	4573	18925	498	248	48	90	-	13	1	3	-	-	11	-	5	11	2	-				
40: 1	Richmond WH - -	2272	25339	590	470	82	182	-	10	-	2	9	7	9	1	14	24	93	1				
2	Mortlake H - -	2941	16159	449	237	64	69	-	16	1	16	18	2	7	1	18	25	4	1				
41: 1	Bromley, pt. of * HHHH - -	15669	45783	1223	552	138	147	1	21	1	10	15	2	21	1	30	36	25	14				
2	Chislehurst, pt. of * WHH - -	14307	20372	573	337	65	128	-	3	-	6	2	2	5	1	7	16	73	10				
42: 1	Bexley HH - -	13437	80537	959	494	116	154	2	47	10	1	12	3	12	1	23	28	12	16				
2	Dartford Workh., pt. of * - -	-	-	4	26	-	20	2	-	-	-	-	-	-	-	2	2	26	-				
124: 1	Sunbury W - -	11055	13615	327	165	36	52	-	4	1	2	1	-	5	1	6	8	5	-				
2	Staines W - -	13277	13220	401	270	63	18	-	4	-	4	10	-	3	-	10	15	50	1				
125: 1	Hillingdon WHH - -	6029	12237	318	214	41	83	-	5	2	8	5	1	4	-	12	20	43	3				
2	Uxbridge - -	6178	5416	169	89	18	27	-	8	-	-	-	-	2	-	5	9	-	-				
3	Hayes WH - -	14587	12618	321	172	39	52	-	6	-	3	13	1	7	-	8	14	5	-				
126: 1	Isleworth WHH - -	7008	26271	760	432	113	194	-	6	1	1	4	2	15	-	7	32	114	-				
2	Twickenham HH - -	2477	16206	406	250	37	94	-	4	2	9	1	-	8	1	11	17	8	1				
3	Brentford HHHHL - -	4345	37774	1035	611	160	165	-	22	2	10	15	5	28	-	17	36	18	5				
4	Chiswick - -	1340	21964	676	386	109	106	-	32	1	4	26	3	17	-	10	22	-	5				
5	Acton WH - -	6083	30946	931	435	152	118	-	30	2	3	29	6	44	1	14	27	4	1				
127: 1	Harrow HH - -	13809	15710	401	203	36	69	-	2	3	5	6	-	4	-	9	13	8	-				
2	Edgware HH - -	6994	3849	95	63	11	21	-	-	-	1	4	-	1	-	2	5	1	-				
3	Willesden HHH - -	4383	61233	2035	934	331	133	-	45	8	17	55	5	31	6	14	47	2	7				
4	Hendon W - -	8382	15335	592	345	70	97	-	25	1	2	5	1	17	-	12	25	93	-				
128: 1	South Mimms H - -	15599	8454	263	138	26	58	-	9	-	1	3	1	3	-	3	9	1	2				
2	Barnet WHH - -	5438	11785	303	190	23	74	-	-	1	1	1	-	1	-	5	9	43	1				
3	Finchley HH - -	4683	25813	664	294	57	101	-	7	4	7	2	1	7	-	5	13	9	-				
129: 1	Hornsey HH - -	3039	61404	1558	721	171	233	-	22	5	12	21	7	14	-	15	31	3	2				
2	Tottenham H - -	4642	97166	3332	1855	472	343	1	44	16	22	53	17	72	5	71	154	95	10				
3	Edmonton WH - -	7483	36350	1243	719	196	195	-	23	3	17	16	5	36	-	21	47	178	2				
4	Enfield WHH - -	12653	31799	1069	464	122	127	-	-	5	17	5	15	19	-	14	28	30	3				
5	Waltham Abbey - -	11017	6063	187	102	23	31	-	2	-	6	-	-	-	-	2	3	-	7				
6	Cheshunt H - -	8480	9620	274	131	20	52	-	6	-	2	2	-	2	-	3	5	2	9				
135: 1	Hatfield, part of * - -	3306	582	16	9	1	4	-	-	-	-	-	-	-	-	-	-	1	-				
137: 1	Bushey H - -	331	7731	212	118	25	40	-	5	2	2	2	-	2	-	2	1	4	-				
2	Watford Workh., pt. of * - -	-	-	2	16	-	4	-	1	2	-	-	-	1	-	-	-	16	-				
136: 1	Stratford H - -	883	42982	1677	881	268	152	-	57	12	24	28	6	85	1	45	49	39	23				
2	Plaistow WHH - -	5748	2410	1051	382	167	-	-	51	29	17	32	6	57	3	13	27	14	57				
3	Canning Town H - -	54750	2350	1109	358	129	-	-	64	17	19	21	6	55	-	39	65	37	60				
4	Forest Gate W - -	49322	1524	739	194	203	-	-	25	11	16	20	3	16	1	9	11	4	27				
5	East Ham W - -	8296	32710	1344	547	181	90	-	16	9	8	21	5	36	-	15	18	-	20				
6	Leyton WWvL - -	4372	70188	2328	1421	356	427	-	34	19	30	51	10	43	1	27	40	366	58				
7	Walthamstow HH - -	6520	37330	2026	1021	294	226	-	89	16	29	39	4	34	1	24	30	2	30				
137: 1	Chigwell, part of * H - -	11761	12941	333	164	25	65	-	2	-	3	1	-	-	-	3	4	1	5				
2	Epping Work., pt. of * - -	-	-	-	11	-	10	-	-	-	-	-	-	-	-	-	-	11	-				
138: 1	Romford, part of * W - -	6730	4324	135	97	21	34	-	1	-	-	5	1	9	-	3	4	23	1				
2	Ilford - -	8493	10913	337	143	45	35	1	2	1	-	5	-	12	-	5	8	-	6				
3	Barking Town - -	4127	14301	648	282	98	43	-	3	-	-	25	3	6	-	3	5	-	2				

* The parts of sub-districts included within that portion of the Metropolitan Police District which forms the Outer Ring are as follow:—50: 2, the whole of Epsom sub-district, except the parishes of Ashstead and Headley (pop. 1766); 37: 1, the two parishes of Warrington and Farley in Godstone sub-district; 39: 3, the whole of Esher sub-district, except the parish of Esher (pop. 2252); 41: 1, the whole of Bromley sub-district, except the two parishes of Cudham and Knockholt (pop. 1975); 41: 2, the whole of Chislehurst sub-district, except the parish of Chislefield (pop. 1123); 135: 1, only the parish of Northaw in Hatfield sub-district; 137: 1, the whole of Chigwell sub-district, except the parish of Theydon Bois (pop. 1079); 139: 1, only the parish of Dagenham in Romford sub-district. Deaths belonging to the Outer Ring occurring in workhouses in Dartford, 42: 2, Watford, 137: 2, and Epping, 137: 2, are also included.

TABLE 19.—Temperature at Greenwich; Population; Total Deaths, and Deaths at Seven groups of Ages, in London, in each Week of 1892.

POPULATION estimated to the middle of 1892 - -					4,263,294	110,185	397,576	1,303,163	1,443,915	735,345	255,544	17,566
Number of Week.	WEEK ENDING	TEMPERATURE.			AGES AT DEATH.							
		Mean.	Highest Reading.	Lowest Reading.	ALL AGES.	Under 1 Year.	1-5	5-20	20-40	40-60	60-80	80 and upwards.
	YEAR (of 52 Weeks) }	°	°	°								
		48·1	85·9	17·6	87,749	20,359	14,201	5,119	10,595	15,649	17,984	3,842
	March Quarter (13 Weeks).	37·5	68·7	18·8	29,931	6,021	4,747	1,330	3,209	5,503	7,406	1,710
	June (13 Weeks).	53·4	85·9	26·7	20,044	4,280	4,024	1,286	2,463	3,531	3,702	753
	September (13 Weeks).	59·2	84·3	37·2	18,160	5,628	2,675	1,179	2,266	2,953	2,885	569
	December (13 Weeks).	42·3	61·9	17·6	19,614	4,430	2,755	1,324	2,652	3,652	3,991	810
	1892.											
1	January 9	33·1	43·5	24·1	2679	493	437	91	536	508	703	156
2	" 16	30·8	36·4	22·3	3271	581	452	127	348	625	958	180
3	" 23	37·4	49·6	28·8	3761	587	489	127	355	756	1173	274
4	" 30	42·7	51·6	29·1	3355	573	443	128	317	618	1012	234
5	February 6	41·5	49·0	30·3	2509	469	396	99	239	476	645	176
6	" 13	43·3	52·6	31·9	2010	434	330	96	219	365	463	103
7	" 20	30·7	40·6	18·8	1633	406	285	80	196	237	353	86
8	" 27	40·9	55·5	33·3	1829	423	304	95	233	327	866	81
9	March 5	53·5	42·8	26·3	1545	367	274	72	189	271	298	74
10	" 12	31·6	40·1	22·3	1808	435	307	107	211	321	352	75
11	" 19	41·4	60·0	27·9	1933	448	353	102	224	342	397	117
12	" 26	41·4	60·5	23·4	1744	387	340	115	184	296	343	79
13	April 2	42·7	68·7	28·3	1753	418	337	91	208	286	338	75
14	April 9	53·4	75·3	34·9	1812	370	366	104	225	283	332	82
15	" 16	41·3	66·8	27·8	1590	533	319	96	177	289	319	57
16	" 23	47·1	70·0	26·7	1715	387	344	107	193	290	315	79
17	" 30	45·1	63·5	29·6	1619	314	344	200	203	304	287	67
18	May 7	44·7	64·0	28·7	1549	303	328	102	183	272	312	49
19	" 14	55·4	71·1	38·3	1597	351	343	92	184	261	300	66
20	" 21	53·9	68·4	41·7	1587	303	333	107	222	277	298	47
21	" 28	62·8	84·0	43·1	1534	302	301	97	203	299	275	57
22	June 4	60·6	85·1	42·7	1419	306	273	78	202	267	258	55
23	" 11	61·9	85·9	47·9	1428	321	287	99	171	257	252	41
24	" 18	51·3	65·5	37·2	1402	323	276	116	153	254	226	54
25	" 25	57·5	76·1	43·9	1415	324	257	95	187	239	261	52
26	July 2	63·2	82·3	42·3	1377	343	253	93	165	239	237	47
27	July 9	63·1	82·4	50·4	1405	393	228	92	172	243	242	35
28	" 16	57·8	73·1	48·6	1546	516	274	87	173	242	205	49
29	" 23	56·4	74·3	47·0	1554	535	242	99	166	251	213	48
30	" 30	59·4	77·1	48·0	1431	454	219	91	169	211	243	44
31	August 6	60·8	77·1	45·4	1409	454	223	80	170	220	224	38
32	" 13	60·6	81·2	43·8	1421	429	217	101	167	243	216	48
33	" 20	63·9	84·3	51·0	1407	465	200	73	159	241	210	54
34	" 27	62·8	82·0	48·3	1406	447	214	86	185	212	222	40
35	September 3	58·3	73·2	47·1	1556	435	209	87	173	220	205	36
36	" 10	53·8	68·1	38·4	1361	442	183	91	178	196	230	41
37	" 17	58·3	72·6	42·7	1381	430	165	110	170	239	221	45
38	" 24	58·0	74·6	37·2	1238	307	159	87	195	218	233	39
39	October 1	53·9	69·8	42·2	1245	321	151	90	189	222	221	51
40	October 8	47·3	61·4	40·0	1344	326	174	107	189	280	222	46
41	" 15	46·8	59·3	35·3	1395	331	179	104	202	254	281	44
42	" 22	41·9	52·1	33·0	1449	328	192	88	217	276	298	50
43	" 29	44·9	61·9	27·4	1514	343	201	119	226	292	275	62
44	November 5	47·7	59·1	31·6	1491	341	204	92	198	293	312	55
45	" 12	44·3	53·2	31·2	1553	345	225	121	190	274	314	69
46	" 19	47·6	60·9	31·7	1588	365	193	81	207	263	345	51
47	" 26	41·3	50·1	33·3	1447	339	207	102	199	274	270	56
48	December 3	42·6	52·4	31·0	1451	346	236	92	191	238	287	67
49	" 10	34·1	41·2	28·2	1452	298	216	104	191	277	299	67
50	" 17	43·8	54·7	29·6	1539	330	224	96	212	298	333	73
51	" 24	38·8	48·1	25·5	1608	360	233	104	220	289	330	70
52	" 31	28·2	36·0	17·6	1890	373	271	123	210	345	407	101

TABLE 20.—Deaths in 194 Public Institutions.

		DEATHS.					DEATHS.				
		TOTAL.	Males.	Females.	PUBLIC INSTITUTIONS.		SUB-DISTRICTS.		TOTAL.	Males.	Females.
TOTAL DEATHS IN 194 PUBLIC INSTITUTIONS		22260	12352	9908							
71 WORKHOUSES AND WORKHOUSE INFIRMARIES—		12328	6163	6075	WORKHOUSES AND WORKHOUSE INFIRMARIES—continued.						
9 METROPOLITAN ASYLUM HOSPITALS—		1650	817	833	City of London { part of — 20; 2. Mile End O. T. East.						
56 GENERAL HOSPITALS—		6518	3791	2727	Infirmary { part of — 21; 2. Bromley —						
28 HOSPITALS FOR SPECIAL DISEASES—		762	427	335	Poplar and Stepney Sick Asylum						
7 LYING-IN HOSPITALS—		8	8	8	Stepney W. (Aged & Infirm) — 21; 2. Bromley —						
5 MILITARY AND NAVAL HOSPITALS—		175	171	4	Poplar Workhouse — 21; 3. Poplar —						
8 HOSPITALS FOR FOREIGNERS—		184	111	55	North Street Infirmary — 21; 3. Poplar —						
15 LUNATIC AND IMBECILE ASYLUMS—		1686	837	849	St. Saviour's Workhouse — 22; 1. Christch. Southwark.						
					St. Saviour's Workhouse — 22; 4. Borough Road —						
					St. Saviour's Workhouse — 22; 7. St. Peter Walworth —						
					St. Olave's Workhouse — 23; 1. St. Olave —						
					St. Olave's Workhouse — 23; 3. St. Mary Magdalen —						
					St. Olave's Infirmary — 23; 5. Rotherhithe —						
					Lambeth Workhouse (Renfrew Road) —						
					Lambeth Infirmary (Brook Street) —						
					Lambeth Old Work. Sch. —						
					Lambeth New Work. Sch. —						
					Wandsworth Infirmary —						
					Westminster Indus. Sch. —						
					Wandsworth Workhouse —						
					St. Anne's Home (Pan-crus Workhouse) —						
					Camberwell Workhouse —						
					Camberwell Infirmary —						
					St. Saviour's Infirmary —						
					Camberwell W. (Gordon Road) —						
					Camberwell W. (Willowbrook Road) —						
					Greenwich Workhouse —						
					Greenwich Infirmary —						
					Lewisham Workhouse —						
					Woolwich Workhouse —						
					Woolwich Infirmary —						
					METROPOLITAN ASYLUM HOSPITALS.						
					Western —						
					North-Western —						
					Eastern —						
					South-Western —						
					South-Eastern —						
					Hospital Ships —						
					Hosp. Camp (Gore Farm) —						
					North-Eastern —						
					Northern —						
					GENERAL HOSPITALS.						
					For Children —						
					St. Mary's —						
					Queen's Jubilee —						
					West London —						
					St. Camillo's —						
					Victoria (Children) —						
					Cheyne (Children) —						
					St. George's —						
					Belgrave (Children) —						
					Westminster —						
					Home Hospital —						
					All Saints Children's Hosp. —						
					Middlesex —						
					St. Elizabeth's Home —						
					Ladies' —						
					Samaritan Free —						

NOTE.—Institutions in which no deaths occurred during the year are not shown in the Table. The Workhouse Establishments printed in *italics* receive inmates from other Districts than those in which they are situated.

registered during the 52 Weeks of 1892.

PUBLIC INSTITUTIONS.	SUB-DISTRICTS.	DEATHS.			PUBLIC INSTITUTIONS.	SUB-DISTRICTS.	DEATHS.		
		TOTAL.	Males.	Females.			TOTAL.	Males.	Females.
GENERAL HOSPITALS—continued.									
St. Peter's Home, Kilburn	7; 1. Hampstead	26	1	25					
Home Hospital	7; 1. Hampstead	8	2	6					
University College	8; 2. Tottenham Court	287	159	128					
Home Hospital	8; 2. Tottenham Court	7	6	1					
Royal Free	8; 3. Gray's Inn Lane	183	116	67					
Temperance	8; 4. Somers Town	55	33	22					
North-West London	8; 5. Camden Town	50	31	19					
Great Northern Central	9; 1. Upper Holloway	114	63	46					
Winifred Ho. (Ch. Conv. Hosp.)	9; 1. Upper Holloway	2	1	1					
Mildmay Memorial	9; 4. Highbury	9	6	3					
Invalid Home	9; 4. Highbury	4	-	4					
Metropolitan Free	10; 3. West Hackney	116	65	51					
Jewish Home for Incur.	10; 5. South Hackney	5	5	-					
Charing Cross	12; 1. St. Martin in-the-Fields	141	86	55					
King's College	12; 3. St. Clement Dances	220	131	89					
London Homoeopathic	13; 1. St. George the Martyr	49	16	33					
St. John and St. Elizabeth	13; 1. St. George the Martyr	23	-	23					
For Children	13; 1. St. George the Martyr	202	98	104					
City Police	14; 1. St. Isidore	4	4	-					
St. Bartholomew's	14; 3. St. Sepulchre	636	392	244					
Convent	15; 1. Shoreditch South	7	3	4					
North-Eastern (Children)	15; 4. Haggerston	95	49	46					
Mildmay Medical Mission	16; 1. Bethnal Green N.	21	11	10					
London	17; 3. Whitechapel Church	853	548	310					
East London (Children)	19; 1. Shadwell	276	144	132					
Poplar	21; 2. Bromley	39	31	8					
Evelina (Children)	22; 4. Borough Road	188	67	71					
Guy's	23; 1. St. Olave	529	327	202					
Royal Infirmary (Women and Children)	24; 1. Waterloo 1st	57	31	26					
St. Thomas's	24; 3. Lambeth Church 1st	614	352	262					
Bolingbroke House Hosp.	25; 2. West Battersea	4	2	2					
The Hostel of God	25; 3. Clapham	8	2	6					
British Home for Incurables	25; 3. Clapham	7	1	6					
Royal, for Incurables	25; 4. Wandsworth	17	4	13					
Miller Hospital	27; 4. Greenwich West	27	15	12					
Cottage Hospital	28; 1. Eltham	1	1	-					
St. John's	28; 2. Lee	14	7	7					
Home for Sick Children	28; 4. Sydenham	12	10	2					
Cottage Hospital	29; 1. Charlton	13	6	7					
Cottage Hospital	29; 3. Woolwich Arsenal	12	4	8					
HOSPITALS FOR SPECIAL DISEASES.									
Lock Hospital	1a; 1. St. Mary Paddington	7	1	6					
Consumption & Diseases of Chest	16; 2. Brompton	169	101	68					
Cancer	3; 2. Chelsea North	113	79	34					
For Women	3; 2. Chelsea North	97	20	77					
Gordon Hosp. for Fistula	4; 2. Belgrave	1	1	-					
Grosvenor (Wom. & Childn.)	4; 3. St. John Westminster	2	-	2					
Diseases of Throat	5; 1. St. James Westminster	10	8	2					
For Women	5; 2. St. Anne Soho	12	-	12					
Heart Diseases	5; 2. St. Anne Soho	3	3	-					
Male Lock Hospital	5; 2. St. Anne Soho	1	1	-					
St. John's (Skin Dis.)	5; 2. St. Anne Soho	2	1	1					
St. Agnes (Consumption)	6; 1. All Souls Marylebone	3	-	3					
West End Hospital	6; 2. Cavendish Square	3	2	1					
Home for Consump. Fem.	6; 4. St. Mary Marylebone	2	-	2					
Epilepsy, &c.	6; 6. St. John Marylebone	1	1	-					
North London Consump.	7; 1. Hampstead	29	24	5					
HOSPITALS FOR SPECIAL DISEASES—continued.									
St. Saviour's (Cancer)	8; 1. Regent's Park	6	-	6					
Central London Throat and Ear	8; 3. Gray's Inn Lane	10	6	4					
Central Lond. Ophthalmic	8; 3. Gray's Inn Lane	1	1	-					
For Women	8; 4. Somers Town	10	-	10					
Small-pox	9; 1. Upper Holloway	3	2	1					
London Fever	9; 2. Islington South-west	14	3	11					
St. Peter's (Stone, &c.)	12; 2. St. Mary-le-Strand	15	15	-					
National (Par. & Epil.)	13; 1. St. George the Martyr	32	13	19					
Alexandra (Hip Diseases)	13; 1. St. George the Martyr	4	4	-					
St. Mark's (Fistula)	13; 8. City Road	5	3	2					
Royal, for Dis. of Chest	13; 8. City Road	78	57	21					
City of London for Chest Dis.	16; 3. Bethnal Green East	113	80	33					
LYING-IN HOSPITALS.									
St. John the Divine	3; 2. Chelsea North	2	1	1					
Queen Charlotte's	6; 4. St. Mary, Marylebone	6	-	6					
British	11; 2. St. Giles South	19	9	10					
City of London	13; 3. City Road	17	11	6					
East End Mothers' Home	20; 1. Mile End O.T. W.	5	3	2					
General (York Road)	24; 2. Waterloo 2nd	9	5	4					
Clapham Maternity	24; 5. Kennington 1st	6	5	1					
MILITARY AND NAVAL HOSPITALS.									
Station Hospitals	4; 3. St. John Westminster	16	16	-					
Seamen's	27; 5. Greenwich East	117	113	2					
Herbert	29; 1. Charlton	37	37	-					
Garrison Female	29; 3. Woolwich Arsenal	3	1	2					
Arsenal Infirmary	29; 3. Woolwich Arsenal	2	2	-					
HOSPITALS FOR FOREIGNERS.									
German	10; 4. Hackney	111	78	33					
French	11; 3. St. Giles North	28	23	15					
Italian	13; 1. St. George the Martyr	15	10	5					
LUNATIC AND IMBECILE ASYLUMS.*									
St. Luke's Hospital	13; 8. City Road	11	7	4					
Hoxton House	15; 1. Shoreditch South	70	27	43					
Bethnal House	16; 3. Bethnal Green East	49	15	31					
Grove Hall	21; 1. Bow	61	52	9					
Bethlehem Hospital	22; 5. London Road	15	9	6					
Peckham House	26; 2. Camberwell	46	24	18					
Camberwell House	26; 2. Camberwell	64	30	34					
Lond. Co. Asyl., Banstead	30; 1. Carshalton	241	103	138					
Metrop. Asyl., Caterham	37; 1. Godstone	177	84	93					
Lond. Co. Asyl., Cane Hill	38; 1. Croydon	139	77	62					
Metrop. Asyl., Darenth	42; 2. Dartford	110	53	57					
City of Lond. Asyl., Stone	42; 2. Dartford	35	20	15					
Lond. Co. Asyl., Hanwell	125; 2. Hayes	178	93	85					
Lond. Co. Asyl., Colney Hatch	128; 3. Finchley	251	107	144					
Metrop. Asyl., Leavesden	137; 2. Watford	239	129	110					

* LUNATIC ASYLUMS.—Private Lunatic Asylums are excluded from this list, except those in which pauper lunatics are received, which are marked thus *.

TABLE 21. LONDON.—**Weekly Deaths** from the principal ZYMOTIC DISEASES during the Four
Fifty Years

	SMALL-POX.				MEASLES.				SCARLET FEVER.				DIPHTHERIA.			
	1889	1890	1891	1892	1889	1890	1891	1892	1889	1890	1891	1892	1889	1890	1891	1892
YEAR -	1	4	8	41	2314	3291	1807	3393	784	876	589	1174	1588	1417	1361	1885
March Quar.	-	1	3	7	1103	333	452	826	182	185	163	159	355	337	355	328
June "	-	2	4	24	667	982	473	1610	149	168	122	261	318	278	311	437
Sept. "	-	1	1	6	218	937	248	575	191	227	130	365	467	308	330	437
Dec. "	1	-	-	4	323	1034	634	382	262	293	169	389	448	494	365	633
Week.																
1 -	-	-	-	-	143	36	76	82	12	15	16	17	33	32	28	25
2 -	-	-	-	1	176	24	45	83	17	13	24	9	21	26	23	29
3 -	-	-	-	-	121	24	38	76	19	22	13	13	38	22	17	23
4 -	-	-	-	-	83	21	27	60	20	10	11	9	33	22	25	24
5 -	-	-	-	-	71	11	15	39	11	14	22	14	38	24	34	27
6 -	-	-	-	-	56	8	20	29	12	19	9	14	24	24	29	18
7 -	-	-	-	-	43	21	24	47	16	14	13	11	24	39	34	15
8 -	-	1	-	-	70	14	24	68	14	13	11	16	27	27	33	50
9 -	-	-	-	1	67	19	30	52	12	14	13	10	25	24	31	27
10 -	-	-	-	-	76	35	32	54	16	12	10	4	20	19	18	34
11 -	-	-	-	2	60	35	44	82	16	18	5	12	31	25	33	31
12 -	-	-	-	-	84	45	32	73	6	11	12	13	23	23	26	30
13 -	-	-	2	2	56	45	45	81	11	10	9	17	18	30	24	15
14 -	-	-	-	2	74	35	38	102	15	8	11	19	26	20	26	34
15 -	-	-	-	-	72	54	48	113	13	12	11	14	36	21	26	33
16 -	-	-	-	2	70	65	51	127	10	13	6	17	22	17	23	29
17 -	-	-	-	2	65	61	33	156	9	17	10	19	29	20	23	17
18 -	-	1	-	1	68	67	33	158	15	15	9	20	21	18	24	31
19 -	-	-	-	3	60	62	35	136	10	12	6	25	23	25	19	24
20 -	-	-	-	4	53	70	41	140	7	17	10	13	24	21	21	42
21 -	-	1	-	1	47	94	41	122	16	15	10	23	21	24	27	39
22 -	-	-	-	3	31	83	42	120	4	14	7	12	16	25	24	40
23 -	-	-	-	1	39	91	34	132	12	12	7	21	34	20	31	37
24 -	-	-	-	1	32	100	18	111	11	11	15	29	26	24	28	34
25 -	-	-	-	1	23	99	23	100	17	15	8	28	27	19	31	39
26 -	-	-	-	4	33	101	26	93	10	7	12	21	13	24	18	38
27 -	-	-	1	1	31	100	31	83	9	13	10	21	38	21	21	39
28 -	-	-	-	-	30	99	30	74	9	20	7	23	25	22	25	43
29 -	-	-	-	4	29	104	26	77	12	12	10	20	23	19	26	37
30 -	-	-	-	1	20	94	21	67	6	13	10	24	44	20	30	25
31 -	-	-	-	-	25	82	29	64	11	19	5	33	45	36	24	42
32 -	-	-	-	-	15	95	17	56	16	17	6	21	28	22	22	35
33 -	-	-	-	-	18	80	20	36	13	27	13	33	36	15	24	37
34 -	-	-	-	-	9	73	17	42	16	16	11	28	37	20	24	38
35 -	-	-	-	-	12	60	10	21	17	24	5	38	32	26	24	24
36 -	-	-	-	-	9	56	11	18	18	18	15	34	30	16	17	37
37 -	-	-	-	-	10	39	12	17	17	18	15	31	41	18	32	36
38 -	-	-	-	-	3	33	9	8	25	14	10	27	44	35	29	43
39 -	-	1	-	-	7	22	15	12	22	16	13	32	44	38	32	50
40 -	-	-	-	-	9	30	17	16	20	20	10	33	45	28	29	51
41 -	-	-	-	-	13	38	18	20	15	20	13	24	35	38	25	46
42 -	-	-	-	-	23	59	19	28	25	20	10	28	41	41	29	41
43 -	-	-	-	-	17	70	18	22	27	29	9	39	37	23	30	56
44 -	-	-	-	-	22	95	31	32	20	16	13	36	31	26	25	47
45 -	-	1	-	-	20	74	37	29	23	23	8	32	23	50	24	51
46 -	-	-	-	-	33	63	49	30	24	15	13	32	38	29	30	29
47 -	-	-	-	1	33	76	53	28	17	26	15	29	30	37	26	46
48 -	-	-	-	2	18	76	64	35	19	27	19	31	33	48	27	39
49 -	-	-	-	-	41	91	45	30	24	23	20	23	47	41	33	58
50 -	-	-	-	1	30	92	46	31	12	30	8	35	35	45	30	59
51 -	-	-	-	-	35	100	83	32	22	14	17	25	27	32	26	60
52 -	-	-	-	-	29	84	154	49	14	14	14	22	26	31	37	50
53 -	-	-	-	-	-	86	-	-	-	19	-	-	-	25	-	-

Years 1889-1892; and the AVERAGE WEEKLY Numbers from these DISEASES during the 1843-1892.

WHOOPIING-COUGH.				FEVER.				DIARRHŒA.				WEEKLY AVERAGE in 50 Years, 1843-92.							YEAR.
1889	1890	1891	1892	1889	1890	1891	1892	1889	1890	1891	1892	Small-pox.	Measles.	Scarlet Fever.	Diphtheria.	Whooping- cough.	Fever.	Diarrhœa.	
1749	3276	2876	2477	596	662	597	467	2677	2753	2437	2546	17	35	42	14	48	35	52	
452	1227	700	1473	114	115	106	80	189	147	173	211	20	32	34	13	66	34	14	March Qr.
541	1051	759	630	103	95	144	90	269	212	218	326	21	40	29	13	56	31	20	June "
300	588	574	204	160	175	127	130	1965	1886	1674	1747	12	28	44	14	33	34	151	Sept. "
456	410	843	170	219	277	220	167	254	508	372	262	14	38	61	17	36	40	25	Dec. "
32	98	76	153	15	12	10	3	11	10	13	13	19	45	44	14	57	36	13	Week.
37	112	46	166	11	12	6	17	12	12	12	30	20	42	44	13	60	36	14	1
36	104	58	179	7	15	7	7	11	6	16	16	21	37	43	18	64	35	14	2
24	82	58	155	11	11	11	5	24	15	19	10	20	31	38	13	69	35	14	3
38	67	37	137	11	9	8	6	13	9	11	17	22	28	35	15	70	35	14	4
33	91	39	104	5	2	9	4	18	4	13	14	21	25	35	14	69	33	14	5
31	115	45	100	13	13	6	4	10	8	10	19	21	24	32	14	67	34	14	6
31	103	61	69	9	7	7	7	16	21	19	17	20	28	33	13	67	33	14	7
31	97	63	67	7	8	4	5	18	12	10	16	20	27	31	13	65	30	15	8
29	95	55	89	7	5	9	6	15	9	15	20	19	30	30	12	66	34	13	9
37	86	48	91	6	4	13	9	14	14	15	14	19	32	27	13	66	34	13	10
42	76	48	92	4	7	8	3	18	14	9	12	18	33	27	12	68	32	13	11
51	101	61	80	8	8	8	4	9	13	11	13	19	35	29	12	71	34	13	12
49	84	61	65	9	3	12	10	17	10	11	13	20	36	27	12	68	32	13	13
43	79	46	66	12	5	8	5	11	10	16	17	21	38	27	14	68	32	13	14
51	106	54	66	6	9	13	6	10	11	15	24	22	38	28	12	66	33	14	15
56	88	72	59	4	7	10	5	18	13	14	14	21	40	27	13	63	32	13	16
55	86	74	59	7	7	14	8	12	21	17	18	22	40	30	12	61	32	14	17
37	99	69	66	9	3	15	7	10	11	12	9	21	40	29	12	61	29	13	18
36	88	53	45	8	10	9	10	14	17	7	13	23	41	28	12	58	31	14	19
48	91	70	45	6	6	8	6	13	10	18	16	23	41	31	12	57	31	15	20
49	78	64	34	9	4	10	8	14	10	14	25	20	43	31	13	53	31	17	21
26	75	56	31	7	9	7	4	19	8	12	28	21	43	32	13	49	30	19	22
37	59	44	39	10	13	21	9	34	16	19	39	20	42	30	13	45	31	25	23
27	66	55	26	7	7	6	5	40	24	25	51	20	41	32	13	44	29	36	24
27	52	41	29	9	12	11	7	57	51	38	59	19	40	32	13	43	30	51	25
32	57	51	24	8	8	6	7	155	85	44	108	17	39	34	13	41	30	85	26
26	66	48	27	10	10	7	9	258	107	94	171	15	36	36	13	41	31	138	27
29	56	33	26	7	7	6	8	273	111	159	192	15	36	37	13	40	31	188	28
19	62	43	23	9	2	14	5	271	108	253	158	14	35	39	13	38	32	227	29
22	45	38	16	8	12	9	7	199	177	247	125	12	34	39	13	34	30	219	30
19	37	52	14	9	12	4	11	175	176	195	128	12	30	41	13	33	32	203	31
17	39	44	13	8	17	7	7	158	262	167	148	12	29	41	12	30	33	190	32
20	39	48	13	11	11	11	9	109	255	127	158	12	27	45	14	30	33	170	33
21	39	40	9	12	17	10	4	78	180	88	165	11	24	45	14	29	34	149	34
28	46	44	9	23	19	6	10	68	128	83	158	11	21	49	13	29	36	180	35
18	35	54	12	21	19	13	20	68	117	66	109	10	19	51	15	27	37	107	36
26	38	55	12	12	21	17	17	73	94	84	65	11	19	52	16	26	38	87	37
23	19	24	6	22	20	17	16	80	86	67	62	9	19	60	16	25	38	74	38
14	18	40	11	21	25	17	15	52	105	65	40	11	22	63	17	26	39	57	39
14	29	34	5	17	25	12	12	28	94	49	32	11	24	64	17	25	39	47	40
26	30	43	2	14	23	22	13	22	75	44	33	10	27	66	18	26	41	38	41
22	28	28	7	23	16	17	18	15	55	81	20	11	28	68	16	26	41	30	42
21	19	36	10	19	26	19	10	17	43	36	30	11	33	67	15	29	41	25	43
24	20	57	10	11	29	15	9	17	26	21	13	13	36	64	18	30	39	21	44
37	25	60	15	21	25	13	16	16	19	21	14	14	39	65	17	34	41	19	45
31	33	69	12	24	23	20	13	17	11	15	11	13	42	63	19	36	41	17	46
44	15	76	8	16	14	17	11	12	16	25	11	15	46	62	18	38	40	16	47
47	28	56	17	10	17	17	11	12	4	14	17	16	47	57	18	43	41	15	48
49	27	71	22	15	13	19	15	14	12	16	17	17	47	57	18	46	40	14	49
60	53	93	26	13	16	10	10	13	13	11	11	17	51	49	17	50	38	13	50
67	43	180	31	15	11	12	14	19	15	25	13	18	49	47	17	56	36	14	51
-	42	-	-	-	14	-	-	-	20	-	-	-	-	-	-	-	-	-	52
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53

* The weekly averages for scarlet fever and diphtheria relate to the 33 years 1860-92.

TABLE 22.—Births and Deaths Registered in London, and Meteorology at Greenwich, in each Week of 1892.

No. of Week.	Week ending	BIRTHS.			DEATHS.			Mean Temperature of the Air.	Mean of the		Degree of Humidity (complete saturation = 100).	Fall of Rain in Inches.	Mean Hourly Amount of Horizontal Movement of the Air in each Week.	Sun above Horizon in Hours.	Registered Sunshine in Hours.
		Total.	Males.	Femls.	Total.	Males.	Femls.		Highest Readings of the Thermometer.	Lowest Readings of the Thermometer.					
1	1892. Jan. 9	2911	1479	1432	2679	1243	1431	38°1	38°1	27°8	80	0·09	Miles. 14·5	55·8	4·7
2	" 16	2680	1356	1324	3271	1525	1746	39°8	34°3	26°1	84	0·01	7·8	57·4	1·3
3	" 23	2623	1357	1266	3761	1723	2038	37°4	41°8	32°5	90	0·13	8·1	59·2	1·8
4	" 30	2643	1313	1330	3355	1587	1768	42°7	47°2	37°5	87	0·11	18·2	61·8	1·5
5	Feb. 6	2803	1422	1386	2500	1232	1268	41°5	46°5	36°9	81	0·29	17·6	64·5	9·0
6	" 13	2651	1356	1295	2010	992	1018	43°3	47°6	39°2	86	0·19	11·5	67·4	3·3
7	" 20	2233	1150	1083	1893	866	827	30°7	36°3	24°7	72	0·58	13·9	70·5	9·6
8	" 27	2694	1371	1323	1829	930	899	40°9	45°3	35°4	90	0·68	6·7	73·7	12·2
9	March 5	2295	1133	1112	1545	767	778	33°5	38°2	30°1	74	0·17	15·5	76·5	4·5
10	" 12	2510	1283	1227	1808	921	887	31°6	38°5	25°9	74	0·17	10·4	79·6	14·2
11	" 19	2576	1303	1273	1983	1037	946	41°4	50°5	33°4	77	0·32	11·5	82·8	27·9
12	" 26	2437	1269	1168	1744	930	814	41°4	50°2	33°8	83	0·28	9·2	86·1	20·6
13	April 2	2498	1259	1239	1753	900	853	42°7	53°4	32°5	68	0·17	11·6	89·4	43·4
14	April 9	2448	1246	1202	1812	953	859	53°4	67°5	38°9	65	0·00	10·3	92·6	73·3
15	" 16	2187	1112	1075	1590	836	754	41°8	52°5	32°2	75	0·67	9·8	95·8	37·5
16	" 23	2404	1311	1083	1715	876	839	47°1	57°6	37°5	72	0·20	10·2	98·8	33·0
17	" 30	2614	1318	1296	1619	823	796	45°1	56°2	36°2	70	0·55	10·3	101·8	36·0
18	May 7	2735	1394	1341	1549	810	739	44°7	52°9	35°9	74	0·15	10·4	104·6	34·2
19	" 14	2877	1459	1418	1597	821	776	55°4	65°8	41°1	61	0·05	8·9	107·3	54·9
20	" 21	2600	1293	1272	1587	883	704	53°9	64°8	44°7	67	0·18	17·0	109·7	27·3
21	" 28	2503	1262	1246	1534	802	732	62°8	77°0	50°3	69	1·23	9·3	112·0	37·7
22	June 4	2563	1291	1272	1419	735	684	60°6	73°6	49°9	68	0·23	13·1	113·6	66·3
23	" 11	2422	1223	1199	1428	772	656	61°9	74°8	50°6	71	0·21	9·8	115·0	66·7
24	" 18	2803	1475	1328	1402	769	633	51°3	61°6	42°4	74	0·35	10·5	115·7	27·8
25	" 25	2654	1319	1335	1415	733	682	57°5	70°5	48°0	76	0·98	10·2	116·2	41·2
26	July 2	2489	1272	1217	1377	707	670	63°2	77°2	50°8	71	0·57	10·6	115·5	53·7
27	July 9	2564	1315	1249	1405	726	679	63°1	75°2	53°2	68	0·48	17·3	114·5	57·4
28	" 16	2545	1263	1282	1546	814	732	57°8	67°3	51°1	83	0·11	8·5	113·2	10·5
29	" 23	2541	1337	1204	1554	788	766	56°4	66°5	48°9	79	0·94	10·4	111·4	22·6
30	" 30	2720	1389	1331	1431	751	680	59°4	71°5	51°5	73	0·00	11·5	109·3	39·8
31	August 6	2376	1258	1118	1409	734	675	60°8	72°7	51°3	74	0·00	10·1	106·6	29·9
32	" 13	2755	1413	1342	1421	730	691	60°6	73°4	50°7	73	0·53	10·0	104·0	37·0
33	" 20	2433	1291	1195	1407	697	710	63°9	74°9	55°5	78	0·76	9·6	101·1	46·2
34	" 27	2495	1237	1258	1406	736	670	62°8	75°7	52°6	73	0·50	8·4	98·0	36·8
35	Sept. 3	2462	1270	1192	1356	689	667	58°3	68°2	51°6	84	1·54	16·5	95·1	30·8
36	" 10	2604	1316	1288	1361	705	656	53°8	64°4	44°5	79	0·07	7·8	91·7	26·4
37	" 17	2547	1318	1229	1381	723	658	53°3	69°7	49°3	76	0·02	10·5	88·3	37·6
38	" 24	2433	1215	1188	1238	634	604	58°0	68°5	49°8	85	0·50	9·0	85·5	29·5
39	October 1	2469	1258	1211	1245	631	614	53°9	63°3	46°5	85	1·51	12·0	82·2	26·7
40	October 8	2441	1226	1215	1344	672	672	47°3	56°1	40°7	91	0·91	9·2	79·1	15·6
41	" 15	2511	1278	1233	1395	697	698	46°8	54°7	40°2	87	0·57	12·5	76·0	14·4
42	" 22	2416	1230	1216	1449	783	666	41°9	49°6	35°6	84	0·05	11·8	72·8	13·6
43	" 29	2312	1170	1142	1514	777	737	44°9	52°3	38°1	86	0·52	13·7	69·8	19·3
44	Nov. 5	2767	1336	1431	1491	747	744	47°7	53°7	41°8	90	1·82	10·1	66·8	9·7
45	" 12	2435	1246	1189	1538	795	743	44°3	49°8	33°4	95	0·11	3·9	63·9	5·0
46	" 19	2510	1203	1217	1508	759	749	47°6	52°7	42°6	91	1·19	9·1	61·4	8·5
47	" 26	2391	1223	1168	1447	717	730	41°3	45°6	36°7	94	0·45	7·1	59·0	0·0
48	Dec. 3	2381	1237	1144	1451	735	716	42°6	47°5	36°7	83	0·61	13·4	56·9	5·8
49	" 10	2397	1244	1153	1452	735	717	34°1	38°5	30°8	84	0·34	14·4	55·6	1·2
50	" 17	2451	1233	1218	1589	824	765	43°8	47°7	38°0	88	0·26	15·7	54·5	1·4
51	" 24	2423	1221	1202	1606	786	820	38°8	41°7	35°5	86	0·00	8·5	53·9	3·0
52	" 31	2120	1063	1057	1830	963	861	28°2	32°8	22°8	84	0·00	5·3	64·5	2·3

TABLE 23.—Greenwich Meteorological Elements for the Year 1892. By J. GLAISHER, Esq., F.R.S.

1892. MONTHS.	Mean Reading of the Barometer.	TEMPERATURE OF THE AIR.										Departure from Average of 121 Years, 1771-1891.	Mean Temperature of the Dew Point.	Mean Elastic Force of Vapour.	Weight of Vapour in a Cubic Foot of Air.	Mean additional Weight required for Saturation.	Mean Degree of Humi- dity. Saturation = 100.	Mean Weight of a Cubic Foot of Air.	RELATIVE PROPORTION OF WIND.				Mean Amount of Cloud.	RAIN.	
		Highest by Day.	Lowest by Night.	Range in Month.	Mean of all Highest.	Mean of all Lowest.	Mean Daily Range.	Mean for the Month.	N.	E.	S.								W.	Number of Days it fell.	Amount collected.				
in.											in.										in.				
January	29·867	51·6	32·3	29·3	40·8	31·4	9·2	36·5	-0·2	32·4	184	2·1	85	554	7	5	8	11	7·1	11	0·38				
February	29·821	53·5	18·8	34·7	41·4	33·7	10·7	33·8	0·0	32·7	193	2·3	82	551	9	5	8	7	7·8	19	1·69				
March	29·842	60·5	22·3	38·2	45·1	30·8	14·3	37·3	+0·8	30·2	168	2·0	66	557	13	10	3	5	6·4	12	1·09				
April	29·828	75·3	26·7	48·6	59·0	36·0	23·0	46·9	+2·7	24·3	126	1·1	69	546	11	9	4	6	4·3	10	1·42				
May	29·821	85·1	36·7	56·4	61·0	41·9	23·1	55·2	-2·7	24·3	126	1·1	67	536	7	7	9	8	5·8	11	1·66				
June	29·828	85·9	37·2	48·7	70·5	47·9	22·6	58·1	-1·0	24·4	133	3·9	1·5	73	533	7	4	9	10	5·9	14	2·27			
July	29·842	82·4	47·0	35·4	70·9	51·2	19·7	59·6	-2·0	51·8	185	4·3	1·4	76	531	10	8	6	7	7·0	12	1·54			
August	29·757	84·3	43·8	40·5	73·8	52·6	21·0	61·7	+0·8	54·1	419	4·6	1·5	77	527	4	2	12	13	6·2	16	3·03			
September	29·811	74·6	37·4	37·4	66·7	47·9	18·8	56·3	-0·2	50·5	387	4·1	0·9	81	534	5	1	12	12	6·4	14	2·01			
October	29·745	61·9	27·4	34·5	53·1	38·1	14·0	45·4	+4·1	41·8	265	3·0	0·5	87	542	8	6	8	9	6·8	22	3·88			
November	29·381	60·9	31·2	29·7	50·0	39·5	10·5	44·9	+2·2	42·7	274	3·2	0·2	82	548	8	9	8	5	7·1	18	2·21			
December	29·816	54·7	17·6	37·1	40·8	33·0	8·8	38·7	-3·8	32·9	167	2·2	0·3	89	557	6	6	8	11	6·5	21	1·14			
Means	29·773	69·2	30·0	39·2	58·8	40·5	16·3	48·1	-0·5	41·7	275	3·1	0·9	80	543	95	72	95	104	6·5	170	22·32			
																Sums.					Sum	Sum			

TABLE 24.—METEOROLOGICAL TABLE FOR LONDON, 1892.

(Deduced from Observations, at Greenwich, under the Superintendence of the Astronomer Royal, and compiled from Quarterly Tables, furnished to the Registrar General by James Glaisher, Esq., F.R.S.)

Temperature of										Elastic Force of Vapour.		Weight of Vapour in a Cubic Foot of Air.		Degree of Humidity.		Reading of Barometer.		Weight of a Cubic Foot of Air.		Rain.		Reading of Thermometer on Grass.										
Air.			Evaporation.			Dew Point.			Air—Daily Range.		Mean.		Diff. from Average of 50 Years.		Mean.		Diff. from Average of 50 Years.		Mean.		Diff. from Average of 77 Years.		At or below 30°.		Between 30° and 40°.		Above 40°.		Lowest Reading at Night.		Highest Reading at Night.	
Mean.			Diff. from Average of 121 Years.			Diff. from Average of 50 Years.			Mean.		Diff. from Average of 50 Years.		Mean.		Diff. from Average of 50 Years.		Mean.		Diff. from Average of 50 Years.		Amount.											
Winter . . . Jan., Feb., March.																																
Spring . . . April, May, June.																																
Summer . . . July, Aug., Sept.																																
Autumn . . . Oct., Nov., Dec.																																
1892.	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	
YEAR	48.1	-0.5	-1.1	45.0	-1.4	41.7	-1.8	16.3	+0.5	-2.5	29.773	.000	543	+1	22.32	-2.81	117	124	125	7	15.9	41.5	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1
Winter Quarter .	37.5	-1.3	-2.2	35.3	-2.6	32.0	-3.2	11.4	-0.4	.182	29.717	-.057	554	+2	3.16	-1.79	53	26	7	15.9	41.5	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	
Spring do.	53.4	+1.1	+0.6	48.4	-0.6	43.5	-1.8	22.9	+3.0	.288	29.826	+.047	538	0	5.35	-0.43	21	36	34	21.3	54.0	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	
Summer do.	59.2	-0.5	-1.0	55.5	-0.8	52.1	-0.9	19.8	+0.1	.390	29.803	+.011	531	+1	6.58	-0.74	2	18	72	23.2	55.1	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	15.0	55.1	
Autumn do.	42.3	-1.3	-2.0	41.0	-1.5	39.1	-1.4	11.1	-0.7	.242	29.747	-.001	540	+2	7.23	+0.15	36	44	12	15.0	50.0	15.0	50.0	15.0	50.0	15.0	50.0	15.0	50.0	15.0	50.0	

In this Table + and - respectively signify that the number in the preceding column are above or below the average to the amount of the quantities to which these signs are affixed.

TABLE 25.—Number of Services and Average Daily Quantity of Water Delivered, by the London Water Companies in each Month of the Year 1892.

COMPANIES.		NUMBER OF SERVICES IN											
		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Total Services		781,011	781,506	782,512	783,345	784,687	785,631	786,328	786,469	787,610	788,787	789,747	790,384
FROM THAMES		376,543	376,705	377,213	377,619	378,215	378,923	379,335	379,088	380,336	380,806	381,180	381,594
FROM LEA AND FROM OTHER SOURCES		404,468	404,801	405,299	405,726	406,472	406,698	406,993	405,781	407,274	407,981	408,567	408,740
FROM THAMES.													
CHELSEA		36,250	36,239	36,276	36,293	36,334	36,353	36,415	36,394	36,434	36,451	36,513	36,540
WEST MIDDLESEX		75,090	75,001	75,186	75,351	75,523	75,739	75,812	75,812	75,969	76,073	76,086	76,191
SOUTHWARK AND VAUXHALL		113,850	113,912	114,009	114,103	114,218	114,349	114,436	114,538	114,681	114,785	114,849	114,919
GRAND JUNCTION		57,564	57,574	57,672	57,699	57,775	57,881	57,949	58,020	58,090	58,203	58,283	58,366
LAMBETH		93,789	93,890	94,070	94,173	94,365	94,596	94,723	94,924	95,162	95,294	95,449	95,578
FROM LEA AND FROM OTHER SOURCES.													
NEW RIVER		155,096	155,119	155,148	155,199	155,357	155,550	155,712	155,823	155,877	156,056	156,392	156,395
EAST LONDON		172,498	172,683	172,965	173,263	173,655	173,655	173,655	173,159	173,487	173,892	174,065	174,065
KENT		76,874	76,999	77,186	77,264	77,410	77,493	77,026	77,799	77,910	78,033	78,120	78,280
COMPANIES.													
Total Quantities supplied		184,589,018	180,123,530	181,507,050	180,921,835	188,458,526	196,841,885	199,650,507	197,911,049	196,716,742	182,601,846	177,069,121	174,939,419
FROM THAMES		92,617,596	90,740,666	90,642,393	91,255,469	95,230,334	99,217,698	102,491,498	100,913,925	100,376,684	93,255,657	90,028,223	88,892,206
FROM LEA AND FROM OTHER SOURCES		91,971,422	89,373,864	90,864,747	89,666,366	93,178,192	97,624,217	97,159,009	96,997,124	96,340,078	89,346,189	87,045,898	86,047,213
FROM THAMES.													
CHELSEA		9,657,173	9,490,656	9,435,244	9,707,706	10,606,274	11,117,198	11,364,212	10,629,721	10,839,973	10,356,683	10,206,063	9,952,665
WEST MIDDLESEX		16,223,019	16,372,314	16,423,421	16,774,691	18,623,487	18,904,230	18,913,521	18,505,977	18,082,877	17,364,564	16,379,899	16,659,966
SOUTHWARK AND VAUXHALL		28,126,556	27,690,251	27,198,251	27,284,569	28,400,384	28,805,291	28,982,082	29,898,080	29,729,080	27,913,024	27,086,151	27,126,769
GRAND JUNCTION		19,017,008	18,442,438	18,785,164	18,784,567	19,659,092	19,433,831	21,290,968	20,927,650	20,666,699	17,327,742	16,438,413	16,265,116
LAMBETH		19,393,750	18,784,207	18,850,213	18,744,556	19,591,097	20,807,118	21,940,715	20,722,517	20,798,017	20,293,634	19,367,937	18,837,700
FROM LEA AND FROM OTHER SOURCES.													
NEW RIVER		31,724,000	31,138,000	32,649,000	33,193,000	35,992,000	38,539,000	38,042,000	37,755,000	37,939,000	34,479,000	32,827,000	31,504,000
EAST LONDON		46,575,263	44,900,966	44,892,614	42,397,422	42,913,806	44,234,558	44,250,896	44,662,774	44,008,360	41,334,219	41,003,789	41,350,148
KENT		13,672,159	13,334,878	13,323,183	13,493,744	14,272,387	14,790,659	14,866,143	14,579,350	14,392,718	13,532,970	13,215,109	13,183,065

Note.—The quantities of water in the above Table include the supply for various purposes other than for domestic consumption.

TABLE 26.—Number of Services, and Average Daily Quantity of Water DELIVERED for ALL PURPOSES and for DOMESTIC PURPOSES, by the London Water Companies during 1892.

WATER COMPANIES	NUMBER of SERVICES during the Year.	AVERAGE DAILY SUPPLY OF WATER DURING THE YEAR.				
		Delivered.		Used for Domestic purposes.†		
		Gallons.	Cubic Metres.*	Gallons.	Gallons per Service.	
					1891.	1892.
Total	785,659	186,777,543	848,616	153,157,585	193	195
FROM THAMES	379,013	94,643,017	430,007	77,607,274	200	205
FROM LEA AND FROM OTHER SOURCES -	406,646	92,134,526	418,609	75,550,311	186	186
FROM THAMES.						
CHELSEA	36,375	10,304,465	46,818	8,440,661	225	232
WEST MIDDLESEX	75,660	17,438,946	79,233	14,299,936	186	189
SOUTHWARK AND VAUXHALL	114,387	28,178,360	128,028	23,106,255	190	202
GRAND JUNCTION	57,923	18,856,146	85,672	15,462,040	265	267
LAMBETH	94,668	19,865,100	90,256	16,289,332	174	172
FROM LEA AND FROM OTHER SOURCES.						
NEW RIVER	155,643	34,653,833	157,448	28,416,143	175	183
EAST LONDON	173,420	43,591,834	198,058	35,745,304	214	206
KENT	77,583	13,888,859	63,103	11,338,864	147	147
Columns	1.	2.	3.	4.	5.	6.

* A cubic metre is equal in volume to 35·3 cubic feet, or to 220·09668 imperial gallons. It is nearly equivalent to the old English *ton* of four hogsheads, holding 35·243 cubic feet. It is in general use on the Continent; and its volume of water weighs a metric *ton*, differing inconsiderably in weight from the *ton* in common use. It is equal to 100 decalitres: thus a décalitre equals 2·2009668 gallons.

† According to returns of the London Water Companies made to the Select Committee on East London Water Bills (Session 1867), it is estimated that during the year 1866 about 82 per cent. of the total supply of water for all purposes was for domestic use; this proportion has been applied in estimating the quantities in columns 4, 5, and 6, showing the gallons probably used for domestic purposes. The average daily quantity of water supplied by the London Companies during the year 1892 was 186,777,543 gallons (848,616 cubic metres, equal to about as many *tuns* by measure, *tons* by weight), of which about 153,157,585 gallons (695,865 cubic metres) were probably used for domestic purposes. The average quantity used daily for domestic purposes to each service (see Col. 6) is equal to 88·6 decalitres, and, assuming 7·0 persons to each service, corresponds to 27·8 gallons (12·7 decalitres) to each person. The Returns of the Water Companies include services to uninhabited houses.

REPORT on the CHEMICAL, PHYSICAL, and BACTERIOLOGICAL EXAMINATION of
the WATERS supplied by the METROPOLITAN WATER COMPANIES during the
YEAR 1892. By PROFESSOR FRANKLAND, D.C.L., LL.D., M.D., F.R.S.

Water-analysis Laboratory, The Yews, Reigate,
18th February 1893.

SIR,

I HAVE now to report to you the results of monthly analyses and examinations of the water supplied by the eight Metropolitan Water Companies, the Colne Valley Water Company, and the Tottenham Local Board of Health, during the year 1892.

At the request of the Associated Metropolitan Water Companies I have, since the month of April, extended these monthly examinations to (a) the chemical and bacteriological condition of the raw river waters at the intakes of the various Companies, and (b) to the bacteriology of the water as it issues from the filter beds of each Company, and before it is pumped into the distributing mains.

Except in November and December the weather during the year 1892 has been on the whole, not unfavourable for the operations of the Companies who derive water from the rivers Thames and Lea, and the quality of their supplies has, except in December, been much more uniformly good and less subject to violent fluctuations than during the previous year. The want of additional storage reservoirs and, in some cases, of larger filter areas, is still very emphatically declared both by the chemical and bacteriological examinations. Thus of the five Companies drawing from the Thames, the water of the Chelsea Company, with its 14·2 days storage was, chemically, almost invariably of better quality than that delivered by any other Company obtaining its supply from the same source, but with a storage of from 7 to 2·5 days only. Even the storage capacity of the Chelsea Company, however, was insufficient in January, February, and December.

In like manner, the 13·7 days storage of the East London Company, which draws its supply from the Lea, was insufficient in January and November, and still more so in December (see Table E.). Nevertheless, the samples of water collected and examined by me were invariably clear and bright. Even when analysis showed the admission of flood water, the water actually supplied to consumers was always efficiently filtered, and, during the entire year, there was no such exceptional pollution as that which sometimes occurred in the previous twelve months.

All the samples were taken directly from the mains of the several Companies at places recommended by their respective engineers. In addition to the chemical analysis to which each sample has been submitted, the temperature of the water, as it issued from the main at the time of its collection, has been determined, and the appearance which it exhibited on being viewed in a two-foot tube, has been recorded. Nearly all the samples have also been submitted to bacteriological examination. Those collected from January to April inclusive, were taken from the mains of the respective Companies at the same times and places as the samples for chemical analysis. These samples were conveyed to my laboratory as quickly as possible, and the cultivation of the microbes was commenced immediately. From April onwards, for reasons given further on in this report, the samples for bacteriological examination were collected at the works of the respective Companies, as the water left the filters and before it was pumped into the distributing mains; they were hermetically sealed in glass tubes, packed in ice, and submitted to gelatine-plate cultivation at the earliest possible moment. The temperatures and the results of the chemical analyses are contained in the accompanying Tables A. to L.

Table A. gives the temperatures of the waters at the time of their collection. From this Table it will be seen that, although the average temperature differs but little for the several supplies, the monthly variation, in the case of the river waters, is very great; whilst the temperature of the deep-well water is practically constant throughout the year. Thus the water, principally derived from the Thames and supplied by the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies, varied in temperature from 3°·1 C. (37°·6 Fahr.) in January, to 20°·0 C. (68°·0 Fahr.) in August, and the water of the Lea, distributed by the New River and East London Companies, fluctuated from 3°·8 C. (38°·8 Fahr.) in January,

to $19^{\circ}\cdot4$ C. ($66^{\circ}\cdot9$ Fahr.) in August. The deep-well water of the Kent Company, on the other hand, was free from these violent fluctuations, and practically maintained a constant temperature throughout the year; it varied only from $10^{\circ}\cdot4$ C. ($50^{\circ}\cdot7$ Fahr.) in October to $12^{\circ}\cdot8$ C. ($55^{\circ}\cdot0$ Fahr.) in September. This uniformity in temperature of deep-well water is of considerable importance, as the water is cool and refreshing in summer and is less likely to become frozen in the service-pipes in winter, whilst river water at $68^{\circ}\cdot0$ Fahr. is unpleasantly rapid and at $37^{\circ}\cdot6$ Fahr. is soon cooled to the freezing point.

Table B. gives the total amount of solid matters found in 100,000 parts by weight of the various waters. These solid matters are almost wholly composed of mineral substances, which, in these proportions, in no way diminish the fitness of the water for drinking. But the salts of lime and magnesia, which constitute the principal part of these mineral ingredients, are objectionable, not only because they impart to the water what is known as "hardness," and thus render it unsuitable for washing, but also because they cause incrustations and deposits in steam and kitchen boilers and hot-water pipes. The comparatively small proportion of organic material which the solid matter invariably contains, is, on the other hand, of great importance in connexion with the use of the water for drinking purposes. For, although the actual amount of this organic matter is often quite insignificant, yet it may be of the most objectionable character on account of its origin. Thus the water both of the Thames and the Lea receives, above the points where it is abstracted for the purpose of the metropolitan supply, various contributions of organic matter of animal origin, such as the drainage from manured land, the effluent from sewage works, and even raw sewage itself. This animal matter may, at any time, be accompanied by zymotic poisons dangerous to health, and although the chances of such substances reaching the water consumer are enormously reduced, both by the care which is exercised in excluding the flood waters from the reservoirs, and especially by the efficient filtration to which the water is subjected before distribution; yet, in spite of these protective measures, there is no absolute guarantee that the noxious ingredients, which may at any time be present, are wholly removed. It is gratifying to find, therefore, that most of the water Companies are endeavouring to substitute, as far as possible, water from subterranean sources for raw river water, whilst the Board of Conservators have almost completely stopped the discharge of untreated town sewage into the Thames.

The saline matters dissolved in the deep-well water from the chalk are considerably greater in amount than those found in the river-water, and inasmuch as this chalk water is sent out in its natural condition by the Kent and East London Companies and by the Tottenham Local Board of Health, these supplies contained in two out of the three cases, more solid matter than any of the others. The Colne Valley Company, on the other hand, by treating this chalk water with lime before delivery, so reduced the solid matter that the latter was one-third less than the amount present in the river waters, and was about one-half of that in the deep-well waters either of the Kent Company or of the Tottenham Local Board of Health.

Tables C. and D. are very important; they record the amounts of organic carbon and organic nitrogen in each of the waters, as determined by combustion with oxide of copper. Since these are the only two ingredients of the organic matter which can be accurately determined, these results are the only available evidence of the relative proportions of total organic matter present in the waters. These Tables show that, with few exceptions, the river waters, both from the Thames and Lea, were considerably polluted with vegetable organic matter in the months of January, February, October, November, and December. The waters derived chiefly from the Lea by the New River and East London Companies were almost invariably superior to the Thames-derived waters of the Chelsea, West Middlesex, Southwark, Grand Junction, and Lambeth Companies, the New River Company's water often rivalling the deep-well waters in respect of organic purity, but the sample collected in December contained three times as much organic matter as that examined in January. The proportion of organic matter in the deep-well waters of the Kent, Colne Valley, and East London Companies, and in that of the Tottenham Local Board of Health, was, almost invariably, very small.

Taking the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in the subsequent years, 1892 included, the following proportions were present :—

Year.	Proportion of Organic Impurity present in Thames Water as delivered in London.	Year.	Proportion of Organic Impurity present in Thames Water as delivered in London.
1868 - - -	1,000	1881 - - -	993
1869 - - -	1,016	1882 - - -	1,033
1870 - - -	795	1883 - - -	850
1871 - - -	928	1884 - - -	723
1872 - - -	1,243	1885 - - -	839
1873 - - -	917	1886 - - -	756
1874 - - -	933	1887 - - -	690
1875 - - -	1,030	1888 - - -	722
1876 - - -	903	1889 - - -	677
1877 - - -	907	1890 - - -	680
1878 - - -	1,056	1891 - - -	1,002
1879 - - -	1,165	1892 - - -	831
1880 - - -	1,254		

These figures show that the Thames water distributed during the year 1892 was of much better average quality than that distributed during the previous year, although it still fell short of that supplied during the years 1886 to 1890 inclusive.

Of the water chiefly derived from the river Lea, that supplied by the New River Company contained, in every case, less organic matter than that of the East London Company, which was generally, in this respect, somewhat superior to the best of the Thames waters.

Taking, as before, the mean proportion of organic impurity contained in the Thames water delivered in 1868 as 1,000, I find that in subsequent years, 1892 included, the following proportions were present in the Lea water :—

Year.	Proportion of Organic Impurity present in Lea Water as delivered in London.	Year.	Proportion of Organic Impurity present in Lea Water as delivered in London.
1868 - - -	484	1881 - - -	765
1869 - - -	618	1882 - - -	711
1870 - - -	550	1883 - - -	620
1871 - - -	604	1884 - - -	500
1872 - - -	819	1885 - - -	603
1873 - - -	693	1886 - - -	500
1874 - - -	583	1887 - - -	473
1875 - - -	751	1888 - - -	506
1876 - - -	562	1889 - - -	504
1877 - - -	596	1890 - - -	432
1878 - - -	747	1891 - - -	684
1879 - - -	947	1892 - - -	338
1880 - - -	1,013		

Thus the Lea water delivered during the year 1892 was of better average quality, as regards organic contamination, than that delivered last year but worse than that in any previous year since 1883.

The organic matter found in the deep-well water supplied to London during the past twenty-five years is of course much less in amount, and the fluctuations from year to year are much less violent than in the river waters. Referred to the same standard, the figures are as follows :—

Year.	Proportion of Organic Impurity present in Deep-well Water as delivered in London.	Year.	Proportion of Organic Impurity present in Deep-well Water as delivered in London.
1868 - - -	254	1881 - - -	405
1869 - - -	312	1882 - - -	409
1870 - - -	246	1883 - - -	321
1871 - - -	150	1884 - - -	264
1872 - - -	221	1885 - - -	200
1873 - - -	250	1886 - - -	244
1874 - - -	287	1887 - - -	249
1875 - - -	250	1888 - - -	241
1876 - - -	246	1889 - - -	268
1877 - - -	243	1890 - - -	252
1878 - - -	323	1891 - - -	357
1879 - - -	387	1892 - - -	338
1880 - - -	393		

Table E. shows the proportional amount of organic elements (organic carbon and organic nitrogen) in each of the waters, the average amount of these elements contained in the Kent Company's water during the nine years ending December 1876 being taken as unity.

This Table shows that the maximum, minimum, and average proportions of organic matter, as measured by this standard, present in the several waters during 1892, were :—

Sources.				Maximum.	Minimum.	Average.
Deep wells	{	Kent - -	-	1.0	0.6	0.8
		Tottenham -	-	1.6	1.2	1.4
		East London -	-	2.7	1.3	1.8
		Colne Valley -	-	2.2	1.1	1.7
River Lea	{	New River -	-	3.8	1.1	2.0
		East London -	-	5.9	1.9	3.0
River Thames	{	Chelsea -	-	5.9	1.8	3.2
		West Middlesex -	-	6.3	2.0	3.5
		Southwark -	-	5.8	2.2	3.4
		Grand Junction -	-	5.9	2.2	3.5
		Lambeth -	-	5.9	2.3	3.5

Metropolitan Water Supply.

Thus, of the deep-well waters, that sent out by the Kent Company contained by far the least proportion of organic matter. Of the river waters, that supplied by the New River Company stood much higher than the others in this respect, whilst the East London Company's water was markedly superior to any of the Thames-derived waters.

The following Table exhibits the maximum amount of organic matter in the waters supplied from the Thames and Lea during the years 1868 to 1892 inclusive, the average of the samples from each source in the month of greatest impurity being taken for comparison :—

MAXIMUM AMOUNT OF ORGANIC MATTER.

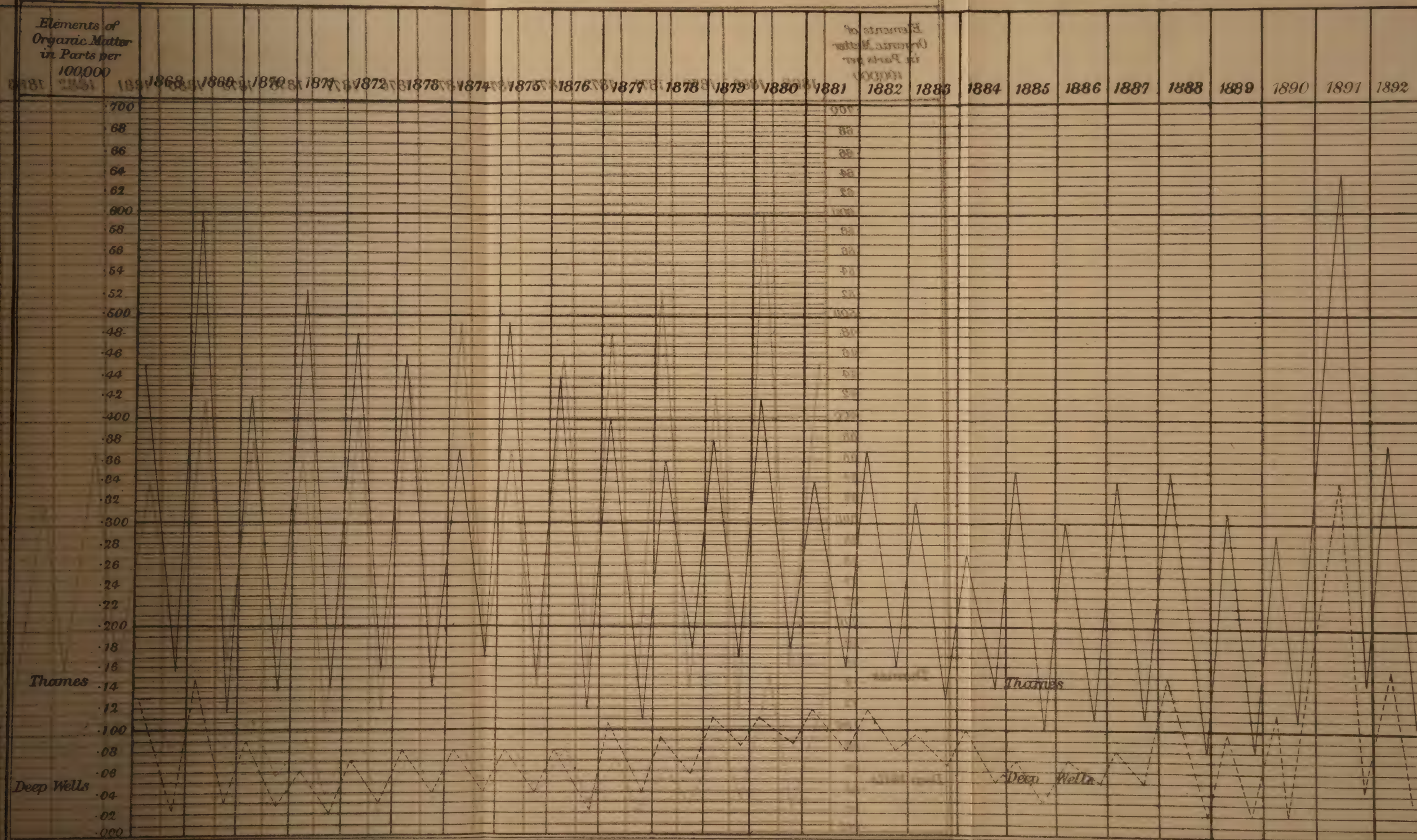
THAMES.			LEA.		
Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.	Year.	Elements of organic matter in parts per 100,000.	Months in which maximum pollution occurred.
1868	45	January.	1868	27	February.
1869	60	February.	1869	33	February.
1870	42	January.	1870	30	January.
1871	52	October.	1871	22	February.
1872	48	January & December.	1872	39	December.
1873	46	January.	1873	33	January.
1874	37	March.	1874	21	March.
1875	49	November.	1875	28	November.
1876	44	December.	1876	24	March.
1877	40	January.	1877	30	January.
1878	36	December.	1878	26	June.
1879	38	February.	1879	33	July.
1880	42	October.	1880	33	February.
1881	34	February.	1881	34	February.
1882	37	November.	1882	26	December.
1883	32	January.	1883	24	December.
1884	27	February.	1884	20	March.
1885	35	November.	1885	28	December.
1886	30	December.	1886	21	February.
1887	34	January.	1887	31	January.
1888	35	December.	1888	29	December.
1889	31	January.	1889	21	November.
1890	27	January.	1890	19	January.
1891	43	October.	1891	27	November.
1892	35	December.	1892	29	Jan. and Dec.

This Table shows that the high degree of organic pollution in the Thames-derived waters noted in 1891 has not occurred again during the past year. On the other hand the maximum pollution in the Lea was slightly greater in 1892 than in 1891.

The variations in the proportion of organic matter found in the several supplies is exhibited graphically in the accompanying diagrams (A. & B.), in which the maximum and minimum proportions of organic matter annually present in each of the three classes of waters since 1868 are recorded.

MAXIMUM AND MINIMUM PROPORTION OF ORGANIC MATTER IN WATER FROM THAMES AND DEEP WELLS.

(*A)

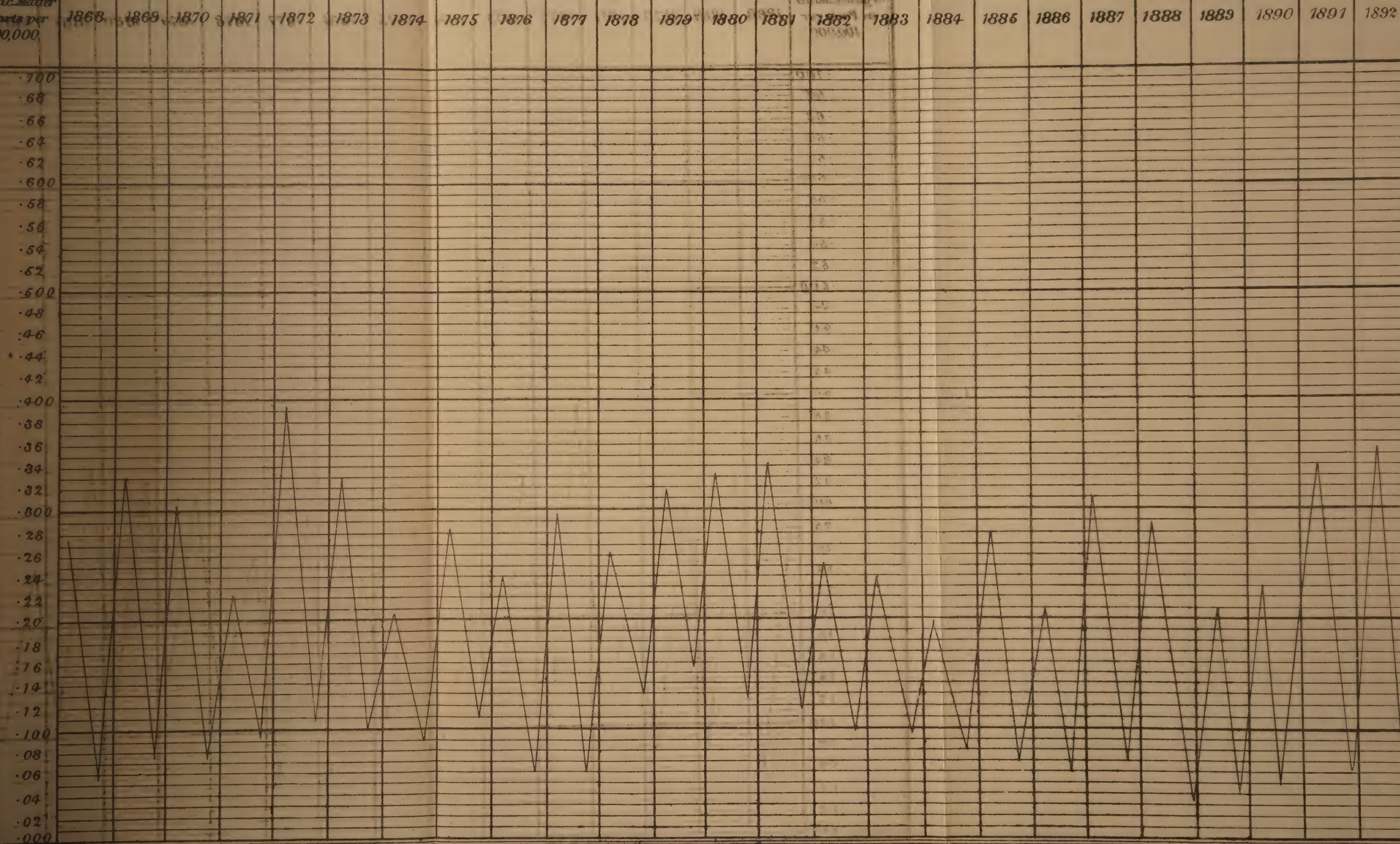


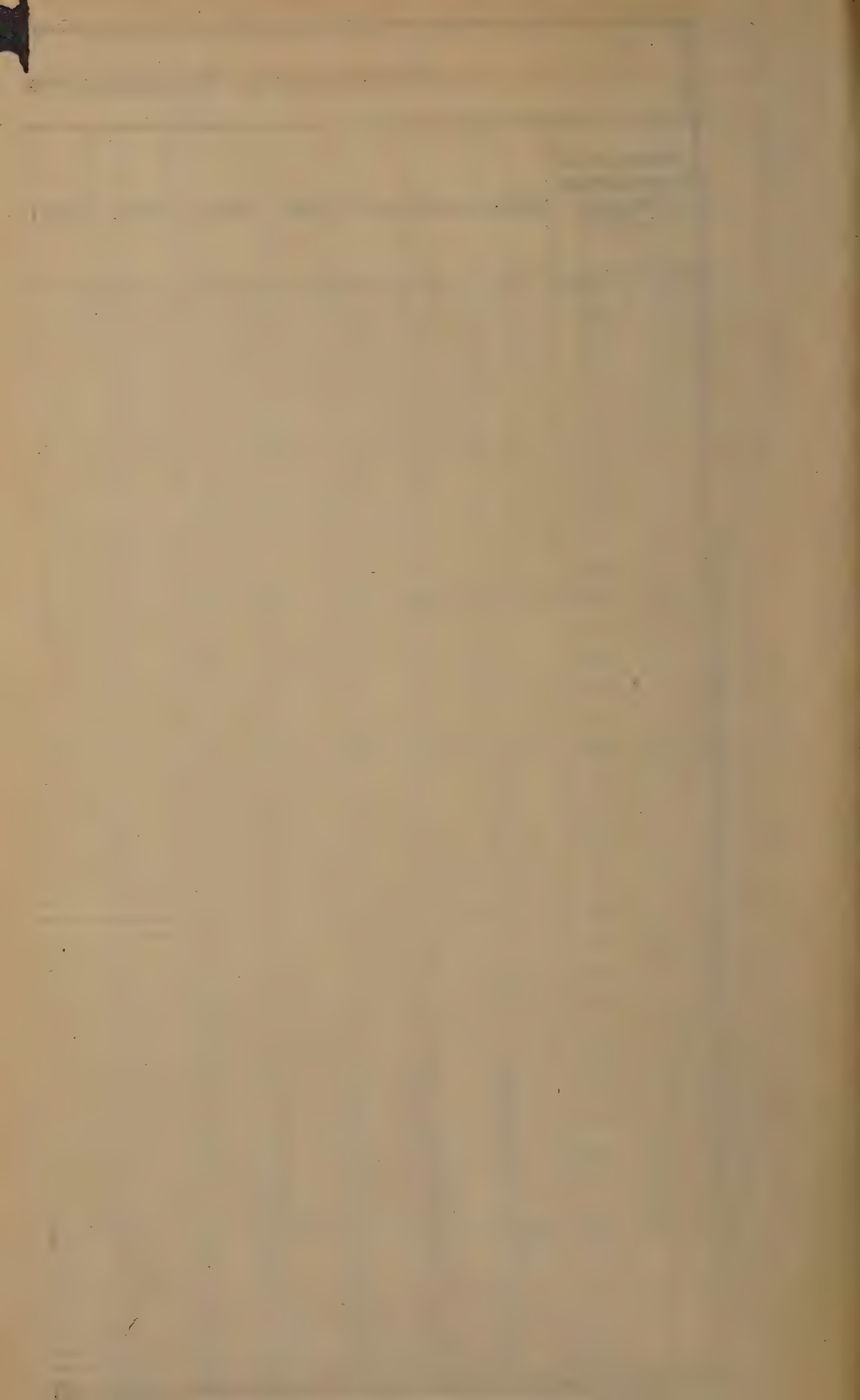
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MAXIMUM & MINIMUM PROPORTION OF ORGANIC MATTER IN RIVER LEA WATER.

(*B)

Elements of
Organic Matter
in Parts per
100,000





Tables F. and G., which record the proportions of ammonia and of nitrogen as nitrates and nitrites in the various waters, require no explanation.

In Table H. is given the amount of combined nitrogen, both mineral and organic, found in each of the waters. The total amount of combined nitrogen is of importance, inasmuch as, after making a small correction for the combined nitrogen present in average rain-water, it forms the whole evidence of the nitrogenous organic matters which have gained access to the water in the past, as well as of those which are still present at the time the analysis is made. In river and surface water generally, this total combined nitrogen undergoes a very appreciable reduction during the warmer months of the year, in consequence of the vegetable life which then abounds in such water. On this account, therefore, the amount of total combined nitrogen found in the river waters during the winter months can alone be regarded as bearing any relationship to the amount of nitrogenous matters which the waters have received.

The deep-well waters on the other hand are not subject to the influence of vegetable life, and the amount of total combined nitrogen is, therefore, equally indicative at all times of the year.

Hence, in the following Table, the average proportion of total combined nitrogen in the case of the Thames and Lea is given for the months of January, February, March, October, November, and December only, whilst in the case of the deep-wells it is calculated on the whole year:—

Year.	Thames.	Lea.	Deep-Wells.
1883	·259	·329	·353
1884	·244	·273	·301
1885	·233	·277	·292
1886	·319	·336	·355
1887	·307	·352	·365
1888	·304	·322	·358
1889	·311	·358	·433
1890	·280	·296	·371
1891	·217	·247	·287
1892	·292	·332	·271

A comparison of these numbers shows that there has been a marked increase of total combined nitrogen in both river waters, whilst in the deep-well waters there is a decided reduction, which, however, is due to the inclusion of the deep-wells of the East London Water Company, which contain a remarkably small amount of nitrogenous compounds. Excluding these wells the number rises to ·349, which is almost identical with the proportion observed in these waters in 1890.

Table I. shows the amount of chlorine present in each of the waters, and indicates that on no occasion has brackish or tidal water gained access to the Companies' reservoirs. The amount of chlorine in all three classes of water is, on the average, almost exactly the same as last year.

Table K. gives the hardness of the various waters. The term "hardness" is used to denote the proportion of carbonate of lime, or its equivalent of other soap-destroying substances, present in 100,000 parts of the water. The variations

in hardness for the several descriptions of water during recent years are given in the following Table:—

Year.	Thames.	Lea.	Kent.	Colne Valley.	Tottenham.	East London Deep Well.
1883	19°·9	20°·6	28°·0	7°·1	22°·5	—
1884	19°·4	20°·1	28°·6	5°·2	19°·7	—
1885	18°·7	20°·0	27°·9	4°·8	20°·4	—
1886	19°·2	20°·3	29°·4	4°·5	21°·3	—
1887	19°·3	20°·8	29°·9	5°·7	20°·5	—
1888	20°·0	22°·0	30°·2	7°·5	22°·5	—
1889	20°·2	22°·1	29°·9	7°·0	24°·6	—
1890	20°·4	22°·0	29°·7	7°·9	23°·8	—
1891	20°·3	21°·8	29°·4	8°·9	24°·4	18°·9
1892	20°·8	21°·9	28°·4	7°·5	23°·9	19°·2

None of the waters supplied to the Metropolis are of such excessive hardness as to influence their fitness for drinking; but, with the exception of that supplied by the Colne Valley Company, the hardness is sufficiently great to materially diminish the value of the waters for washing, steam, and industrial purposes generally. The hardness of the metropolitan water supply is almost entirely due to the presence of bi-carbonate of lime in solution; this bi-carbonate of lime can be readily removed by treating the water with lime, as is so successfully done by the Colne Valley Company. Thus the water pumped from the chalk by the Colne Valley Company is initially of about the same degree of hardness as the Kent Company's supply, but, by treatment with lime before delivery, its hardness is reduced to about one-fourth of its original amount. The hardness of the river water-supplies is similarly reducible. This mode of softening is by far the most economical, for it entails only about one-eightieth of the expense which devolves upon the private consumer in the shape of additional soap required for washing.

Lastly, Table L. records the averages, for the past year, of each determination referred to above, and thus gives a general survey of the thermal and chemical characters of the water delivered by each Company during the past year.

In the following Table are recorded the results of my observations respecting the freedom from turbidity or otherwise of the various waters; and, for the purpose of comparison, the results of my first observations in 1868 are also included:—

COMPANIES OR LOCAL AUTHORITIES.	Number of occasions when clear and transparent.		Number of occasions when slightly turbid.		Number of occasions when turbid.		Number of occasions when very turbid.	
	1868.	1892.	1868.	1892.	1868.	1892.	1868.	1892.
THAMES.								
Chelsea	7	12	2	0	1	0	2	0
West Middlesex	12	12	0	0	0	0	0	0
Southwark	1	11	5	1	4	0	2	0
Grand Junction	9	12	2	0	1	0	0	0
Lambeth	6	12	1	0	2	0	3	0
LEA.								
New River	10	12	2	0	0	0	0	0
East London	3	12	8	0	1	0	0	0
DEEP WELLS.								
Kent	8	12	3	0	1	0	0	0
Colne Valley	—	12	—	0	—	0	—	0
Tottenham Local Board of Health	—	10	—	2	—	0	—	0
East London	—	10	—	1	—	1	—	0

This Table strikingly shows the great improvement which the Water Companies have effected in filtration since I first began these examinations for turbidity in 1868. In that year, seven samples were so turbid as to be highly repulsive in appearance, nine samples were turbid, and no less than 20 slightly turbid, whereas during the year just closed only one was slightly opalescent from suspended clay.

The bacteriological investigation of the waters, by the method of gelatine-plate culture devised by Dr. Koch, gave the results contained in the two following tables. The samples were collected in carefully sterilized vessels.

In the first four months of the year, they were collected simultaneously with those taken for chemical analysis, and at the same places, but during the remainder of the year they were obtained at the works of the respective Companies immediately after the water left the filters and before it was pumped into the distributing mains. By this method of sampling the maximum degree of sterility of each sample was determined. This utmost freedom from microbes, after all sources of contamination have been passed, is obviously the most important moment in the history of the water, for the smaller the number of microbes found in a given volume at that moment, the less is the probability of pathogenic organisms being present, and although the non-pathogenic may, and probably will, afterwards multiply indefinitely, this is of no consequence in the initial absence of the pathogenic. In this determination of maximum sterility it is, of course, of the utmost importance that multiplication should be prevented during the few hours which, in the absence of suitable arrangements at the works of the different Companies, must necessarily elapse before the samples can be submitted to cultivation in my laboratory. This is secured by immediately sealing the glass tubes containing the samples hermetically and packing them in ice. At the freezing point of water, microbes either do not multiply at all or do so with extreme slowness.

Previous to the month of May 1892, all samples for microbe cultivation were collected at the standpipes in London whence the samples for analytical examination were drawn, and a comparison of the number of microbes per c.c., given in the table in my report for the year 1891 and in the first of the following tables (p. liv.), indicates, when compared with the number in the second table, how considerable is the multiplication in the Companies' mains between filter-bed or well and standpipe. Although the collection of the samples for microbe cultivation from the filter-wells on the works of the seven different Water Companies entails great additional labour, which can only be performed by a skilled bacteriologist, I am of opinion that it is the only trustworthy method by which the efficient filtration and comparative bacterial purity of the Metropolitan waters can be ascertained.

In illustration of the bacterial condition of the Thames and Lea at the intakes of the Companies drawing from these rivers, I have, since April 1892, submitted to bacteriological examination samples of the raw or unfiltered water collected contemporaneously with those of the filtered water. I have also occasionally examined the water which is pumped by the Southwark Company from the gravel flanking the Thames near the Company's works at Hampton.

I have undertaken this heavy additional work for one year, at the request and expense of the Associated Metropolitan Water Companies, who have unreservedly placed their plant at my disposition for this purpose, and have afforded me every facility for carrying on this important inquiry. I have also here to record my best thanks to my assistant, Mr. W. S. Burgess, for his very valuable help in connexion with this investigation.

The deep-well water of the Kent Company does not require filtration, and the samples for microbe cultivation were therefore taken during the last eight months of the year from the water as it was discharged from the pumps.

The results of these examinations are recorded in the second of the following tables:—

NUMBER OF MICROBE COLONIES DEVELOPED FROM ONE CUBIC CENTIMETER OF EACH WATER taken from the distributing mains of the various Companies during the months of January, February, March, and April 1892.

COMPANIES.	JANUARY.	FEBRUARY.	MARCH.	APRIL.	MEAN.
THAMES.					
Chelsea - - - - -	42	60	56	52	52
West Middlesex - - - - -	46	16	22	12	24
Southwark - - - - -	830	348	156	54	347
Grand Junction - - - - -	74	46	60	32	53
Lambeth - - - - -	176	38	72	Lost.	95
LEA.					
New River - - - - -	196	36	24	10	66
East London - - - - -	114	126	44	20	76
DEEP WELL.					
Kent - - - - -	204	24	30	8	66

These observations have not yet been continued long enough to permit of any safe conclusions being drawn from them. As far as they go they indicate:—

1. That the water in the gravel flanking the Thames is, bacterially, of enormously better quality than that of the adjacent river. Thus bacterially, as well as chemically, filtration or percolation is immensely more efficient for the purification of water than mere flow for scores of miles in a river.

2. That it is possible, by careful filtration, so to arrest microbes and their spores, as to transform the raw Thames and Lea waters into a beverage which, bacterially, is but little inferior to that from deep-wells in the chalk, the average number of microbes in the Chelsea Company's water abstracted from the Thames during the eight months, May to December inclusive, being only seven per cubic centimetre, whilst the number contained in the same volume of the Kent Company's water, drawn from their deep-well at Deptford, averaged six, the minimum numbers being, Chelsea three and Kent one.

3. The number of microbes in the raw river waters is inversely proportional to the temperature, the number increasing enormously when the freezing point is reached. The Thames water at Hampton contained 2,421 per cubic centimetre in August, when its temperature was 19°·1 C. (66°·4 Fahr.), and 8,210 per cubic centimetre in January 1893, when the water was at 0° C. (32° Fahr.). The Lea at the East London Company's intake contained 1,316 per cubic centimetre in August, when its temperature was 17°·8 C. (64° Fahr.), and 56,150 when it was cooled to 2° C. (35°·6 Fahr.) in January 1893.

4. The transport of pathogenic microbes renders efficient filtration of the river waters supplied to the Metropolis of the very greatest importance from a hygienic point of view, a statement which has been enforced by every visitation of cholera to the Metropolis. In 1832 unfiltered water was distributed, and 5,275 people died of cholera, or 31·4 per 10,000. In 1849 water, for the most part unfiltered and much more polluted, was supplied, and 14,137 persons, or 61·8 per 10,000, perished. In 1854 water of initially less polluted character, but either unfiltered or very inefficiently filtered, was sent out, and 10,738 people, or 42·9 per 10,000, died; whilst in 1866 one Company supplied, and that for a few days only, unfiltered water, and the epidemic was almost entirely confined to the area of the Company's supply; but it killed 5,596 people, or 18·4 per 10,000 of the entire population of London.

5. The bacterial examination of the filtered waters from the Thames and Lea have not yet been continued long enough to enable me to suggest a standard of

NUMBER OF MICROBE COLONIES in the RAW RIVER WATERS and in the WATERS issuing from the FILTER BEDS of the various COMPANIES.

SOURCE OF SAMPLE.	MAY.		JUNE.		JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.		Mean.
	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	Temp. C.	Microbes per c.c.	
THAMES.																	
Unfiltered Water	14.8	631	16.2	1,653	17.2	2,263	19.1	2,421	16.6	947	10.5	2,316	6.7	1,808	5.6	11,168	2,908
Chelsea	14.8	12	16.2	16	17.2	10	19.1	4	16.6	6	10.5	5	6.7	4	5.6	3	7
West Middlesex	14.8	4	16.2	32	17.2	16	19.1	6	16.6	14	10.5	3	6.7	16	5.6	10	13
Southwark, Filter No. 1	—	—	—	11	—	4	19.1	4	—	6	—	26	—	148	—	—	125
" " No. 2	—	8	—	—	—	2	—	—	16.6	6	—	—	—	104	5.6	292	
" " No. 3	—	—	—	—	—	10	19.1	996	—	272	—	14	—	30	5.6	134	
" " gravel water	—	—	—	—	—	—	—	—	—	6	—	60	—	98	5.6	168	
Grand Junction	14.8	24	16.2	29	17.2	12	19.1	14	16.6	10	10.5	12	—	—	5.6	236	48
Lambeth	14.8	4	16.2	17	17.2	30	19.1	16	16.6	8	10.5	43	6.7	10	5.6	138	33
LEA.																	
Unfiltered water New River cut	14.5	158	16.2	416	15.0	631	17.5	631	16.1	737	9.8	737	7.3	3,183	6.3	3,500	1,249
New River	14.5	10	16.2	4	15.0	14	17.5	4	16.1	3	9.8	13	7.3	32	6.3	140	27
Unfiltered water East London Co.'s intake.	15.2	4,526	16.1	2,395	16.1	1,316	17.8	3,000	16.4	1,947	9.0	3,654	6.7	7,026	5.7	15,000	4,858
East London	15.2	10	16.1	12	16.1	24	17.8	4	16.4	9	9.0	22	6.7	5	5.7	134	27
DEEP WELL.																	
Kent	12.4	—	12.5	1	12.5	2	12.5	1	12.8	3	10.4	3	11.5	12	10.4	2	6

bacterial impurity which should not be surpassed; but it would appear that the Chelsea and West Middlesex Companies would not have much difficulty in keeping below 50 microbes per cubic centimetre.

6. So important has filtration become in the light of recent bacteriological research, that, in the use for domestic purposes of river waters receiving either sewage or sewage effluents, I would strongly recommend double filtration, as affording a second line of defence against the invasion of pathogenic microbes. Experience teaches that even the best arranged filtration plant may, at times, pass an objectionable number of microbes. A second filtration would, if not invariably, be very desirable, so as to keep down the number of microbes per cubic centimetre to a very moderate limit. That double filtration is not an impracticable project is proved by the fact, that the Grand Junction Company have already begun to carry it out on a very considerable scale. Of course, gravel water would not need double filtration.

I am, &c.

E. FRANKLAND.

The Registrar General, &c., &c.
Somerset House, W.C.

TABLE A.

TEMPERATURE (in Centigrade degrees) of the METROPOLITAN WATERS, as delivered from the different Companies' Mains.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.	—	—	—	—	—	—	—	—	—	—	—	—	—
	Raw river water	—	—	—	—	14.8	16.2	17.2	19.1	18.6	10.5	6.7	5.3	13.3
	Chelsea	3.8	6.7	5.7	7.9	13.2	16.2	17.2	19.3	18.6	11.2	9.7	5.1	11.1
	West Middlesex	3.5	7.4	5.5	8.0	12.0	14.6	15.1	16.7	17.1	10.0	9.3	4.2	10.3
	Southwark	3.2	6.8	7.7	8.9	14.3	17.8	17.8	20.0	17.7	9.4	10.0	5.0	11.6
	Grand Junction	3.5	8.0	7.8	9.5	15.7	17.6	17.2	19.1	17.7	10.7	10.7	5.0	11.8
	Lambeth	3.1	6.9	6.5	9.3	14.4	16.2	17.1	19.5	18.6	10.4	9.7	4.7	11.2
	LEA.	—	—	—	—	—	—	—	—	—	—	—	—	—
	Raw New River water.	—	—	—	—	14.5	16.2	15.0	17.5	16.1	9.8	7.3	6.3	12.8
	New River	3.3	6.1	6.2	9.3	14.2	16.0	16.8	19.0	16.1	10.7	9.7	5.0	11.1
Outer Circle.	Raw Lea water	—	—	—	—	15.2	16.1	16.1	17.8	16.4	9.0	6.7	5.7	12.9
	East London	3.8	7.8	7.2	9.7	13.7	16.0	17.0	19.4	16.1	9.8	9.9	4.7	11.3
	DEEP WELLS.	—	—	—	—	—	—	—	—	—	—	—	—	—
	Kent	11.1	11.9	11.5	11.4	12.4	12.5	12.5	12.5	12.8	10.4	11.5	10.4	11.7
	East London	—	—	—	—	—	—	—	—	—	—	—	—	—
	Colne Valley	—	—	—	—	—	—	—	—	—	—	—	—	—
	Tottenham	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE B.

WEIGHT OF SOLID MATTERS in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	28.16	27.88	25.70	26.24	27.80	29.04	34.20	34.60	29.20
	Chelsea	32.30	32.00	31.20	27.60	24.54	25.06	25.80	24.92	24.50	26.78	31.30	33.16	28.34
	West Middlesex	32.80	33.12	29.04	26.80	24.04	26.40	25.76	24.38	26.64	28.16	33.22	34.14	28.74
	Southwark	33.80	33.80	30.00	28.80	26.34	24.60	27.92	27.86	27.46	29.22	36.46	33.76	29.82
	Grand Junction	34.02	33.74	30.12	27.60	25.80	26.06	27.26	25.84	27.64	28.10	33.04	33.78	29.50
	Lambeth	34.40	34.50	31.04	28.00	27.28	28.40	27.40	27.76	27.54	30.36	32.54	33.82	30.34
	LEA.													
	Raw New River water.	—	—	—	—	27.28	28.20	32.10	26.88	30.08	31.08	34.32	34.08	30.92
	New River	33.50	32.72	30.30	28.80	26.50	27.36	28.26	26.14	30.38	31.04	33.24	33.40	30.40
Raw Lea water	—	—	—	—	29.80	29.74	29.10	26.24	31.80	36.64	41.64	40.32	35.40	
East London	38.14	37.00	35.10	32.30	28.80	28.52	28.14	28.32	26.18	31.34	36.80	37.24	32.62	
Outer Circle.	DEEP WELLS.													
	Kent	41.20	40.54	40.10	40.00	41.02	40.80	42.20	46.56	42.88	41.34	38.40	38.20	40.03
	East London	28.60	25.74	41.18	28.10	27.46	27.06	26.06	28.36	28.50	28.66	31.80	28.14	28.06
	Colne Valley	21.34	19.60	17.54	16.84	17.80	17.30	17.80	16.16	17.32	18.20	21.84	18.84	18.36
	Tottenham	44.90	41.36	42.54	41.74	42.24	44.70	41.66	41.00	39.80	41.66	41.56	41.40	42.06

TABLE C.

ORGANIC CARBON in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Row river water	—	—	—	—	180	191	180	211	213	204	268	274	200
	Chelsea	245	179	144	116	110	118	104	124	130	100	202	180	170
	West Middlesex	265	177	148	116	118	121	117	108	172	100	200	180	181
	Southwark	184	161	175	126	124	127	140	118	155	221	208	220	178
	Grand Junction	220	173	160	126	115	120	126	118	164	140	206	206	170
	Lambeth	195	181	176	132	120	126	136	120	160	200	208	217	181
	LEA.													
	Raw New River water.	—	—	—	—	076	097	088	115	097	097	204	214	130
	New River	195	095	069	061	050	087	071	092	060	124	181	150	100
Outer Circle.	Raw Lea water	—	—	—	—	148	144	145	171	206	212	270	200	210
	East London	227	140	130	122	098	106	125	114	111	163	218	220	155
	DEEP WELLS.													
	Kent	048	045	044	035	021	038	082	040	044	046	044	041	040
	East London	064	118	064	104	097	082	100	080	093	097	138	085	092
	Colne Valley	065	109	093	062	048	084	073	073	082	072	114	070	080
	Tottenham	071	041	097	055	055	078	073	070	070	067	071	088	097

Metropolitan Water Supply.

TABLE D.

ORGANIC NITROGEN in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	*024	*036	*025	*023	*025	*023	*067	*050	*034
	Chelsea	*033	*025	*016	*015	*014	*017	*015	*013	*020	*019	*024	*031	*020
	West Middlesex	*023	*025	*015	*013	*015	*019	*018	*012	*016	*021	*041	*041	*022
	Southwark	*029	*030	*021	*018	*020	*021	*026	*016	*015	*021	*030	*045	*024
	Grand Junction	*036	*026	*017	*017	*014	*020	*016	*017	*022	*025	*045	*039	*025
	Lambeth	*020	*031	*020	*022	*016	*019	*024	*019	*017	*020	*033	*034	*023
	LEA.													
	Raw New River water.	—	—	—	—	*013	*016	*019	*020	*013	*014	*030	*026	*019
	New River	*023	*019	*012	*012	*012	*014	*012	*012	*010	*011	*020	*035	*016
Outer Circle.	Raw Lea water	—	—	—	—	*022	*031	*026	*032	*039	*024	*062	*049	*036
	East London	*033	*026	*020	*022	*019	*018	*014	*017	*020	*020	*022	*054	*024
	DEEP WELLS.													
	Kent	*010	*007	*006	*003	*012	*010	*008	*009	*006	*006	*004	*006	*008
	East London	*017	*015	*019	*016	*012	*012	*008	*013	*010	*010	*022	*018	*014
	Colne Valley	*024	*016	*017	*017	*016	*010	*025	*015	*018	*009	*015	*024	*017
	Tottenham	*024	*016	*014	*014	*019	*017	*010	*009	*010	*012	*023	*021	*016

TABLE E.

PROPORTIONAL AMOUNT of ORGANIC ELEMENTS, that in the KENT COMPANY'S WATER during the Nine Years ending December 1876 being taken as 1.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	3.4	3.8	3.7	4.0	4.0	4.9	8.8	7.2	5.0
	Chelsea	4.7	3.5	2.7	2.3	2.1	2.3	1.8	2.4	2.6	3.7	4.7	5.9	3.2
	West Middlesex	4.9	3.4	2.8	2.3	2.2	2.4	2.3	2.0	3.2	3.9	6.3	5.8	3.5
	Southwark	3.6	3.2	3.3	2.4	2.5	2.5	2.8	2.2	2.9	4.1	5.7	5.8	3.4
	Grand Junction	4.3	3.4	3.0	2.3	2.2	2.5	2.5	2.5	3.2	3.8	5.8	5.9	3.5
	Lambeth	3.6	3.6	3.3	2.4	2.3	2.4	2.7	2.5	3.2	3.9	5.6	5.9	3.5
	LEA.													
	Raw New River water.	—	—	—	—	1.5	1.9	1.8	2.3	1.9	1.9	4.8	4.1	2.5
	New River	3.8	1.9	1.3	1.2	1.1	1.4	1.4	1.3	1.3	2.3	3.4	3.3	2.0
Outer Circle.	Raw Lea water	—	—	—	—	2.9	3.0	3.7	3.4	4.2	4.0	7.0	6.3	4.3
	East London	4.4	2.8	2.6	2.6	1.9	2.1	2.3	2.2	2.2	3.1	4.1	5.9	3.0
	DEEP WELLS.													
	Kent	1.0	0.9	0.8	0.6	0.6	0.8	0.7	0.8	0.8	0.9	0.8	0.8	0.8
	East London	1.4	2.2	1.4	2.0	1.3	1.6	1.8	1.7	1.7	2.0	2.7	1.7	1.8
	Colne Valley	2.0	2.1	1.4	1.5	1.1	1.6	1.7	1.7	1.7	1.4	2.2	1.7	1.7
	Tottenham	1.6	1.0	1.4	1.2	1.3	1.6	1.4	1.5	1.5	1.3	1.6	1.5	1.4

TABLE F.

AMMONIA in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	*016	*006	*004	0	*001	*002	*017	*014	*008
	Chelsea	0	0	0	0	0	0	0	0	0	0	0	0	0
	West Middlesex	0	0	0	0	0	0	0	0	0	0	0	0	0
	Southwark	0	0	0	0	0	0	0	0	0	0	0	0	0
	Grand Junction	0	0	0	0	0	0	0	0	0	0	0	0	0
	Lambeth	0	0	0	0	0	0	0	0	0	0	0	0	0
	LEA.													
	Raw New River water.	—	—	—	—	*004	*008	*004	*006	*003	*002	*010	*006	*005
	New River	0	0	0	0	0	0	0	0	0	0	0	0	0
Outer Circle.	Raw Lea water	0	0	0	0	*012	*016	*003	*010	*003	*004	*023	*014	*012
	East London	0	0	0	0	0	0	0	0	0	0	0	0	0
	DEEP WELLS.													
	Kent	0	0	0	0	0	0	0	0	0	0	0	0	0
	East London	0	0	*055	0	0	0	0	0	0	*002	0	0	*005
	Colne Valley	*010	*005	0	0	0	0	*030	*004	*023	*010	0	*003	*008
	Tottenham	*034	*050	*045	*046	*045	*014	0	0	0	*066	*055	*040	*033

TABLE G.

NITROGEN as NITRATES and NITRITES in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	·153	·165	·152	·157	·169	·221	·220	·262	·162
	Chelsea	·305	·282	·262	·220	·163	·152	·137	·111	·137	·193	·232	·257	·204
	West Middlesex	·280	·290	·272	·221	·154	·161	·139	·138	·184	·201	·250	·251	·211
	Southwark	·288	·283	·237	·161	·166	·153	·136	·168	·221	·259	·303	·214	
	Grand Junction	·321	·265	·241	·205	·163	·156	·158	·143	·173	·204	·254	·265	·213
	Lambeth	·350	·326	·260	·237	·235	·252	·192	·203	·240	·222	·267	·279	·255
	LEA.													
	Raw New River water.	—	—	—	—	·213	·211	·185	·210	·214	·233	·294	·355	·246
	New River	·353	·353	·341	·253	·195	·202	·142	·182	·217	·245	·284	·302	·257
Outer Circle.	Raw Lea water	—	—	—	—	·222	·179	·137	·162	·192	·272	·283	·272	·215
	East London	·347	·359	·322	·270	·271	·191	·184	·185	·168	·228	·276	·270	·256
	DEEP WELLS.													
	Kent	·439	·452	·487	·472	·478	·494	·486	·496	·486	·474	·458	·434	·471
	East London	trace	·017	·036	·010	trace	·005	·009	·011	·015	0	·129	trace	·019
	Colne Valley	·506	·440	·429	·404	·370	·431	·406	·401	·378	·427	·494	·459	·429
	Tottenham	·278	·021	·027	·020	·036	·228	·104	·041	·117	trace	·019	trace	·074

TABLE H.

TOTAL combined NITROGEN in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	·190	·206	·180	·183	·195	·246	·287	·324	·226
	Chelsea	·338	·307	·278	·235	·177	·169	·152	·124	·157	·212	·256	·288	·224
	West Middlesex	·303	·315	·287	·229	·169	·180	·157	·150	·200	·222	·291	·292	·233
	Southwark	·317	·313	·258	·214	·180	·187	·184	·152	·183	·242	·289	·348	·239
	Grand Junction	·357	·291	·258	·222	·182	·176	·174	·160	·195	·229	·299	·304	·237
	Lambeth	·370	·357	·280	·259	·251	·271	·216	·222	·257	·242	·300	·313	·278
	LEA.													
	Raw New River water.	—	—	—	—	·234	·234	·207	·235	·229	·299	·332	·385	·269
	New River	·331	·372	·353	·265	·207	·216	·154	·194	·227	·256	·304	·337	·272
Outer Circle.	Raw Lea water	—	—	—	—	·254	·223	·170	·202	·236	·299	·364	·333	·260
	East London	·380	·385	·342	·292	·290	·209	·198	·202	·188	·248	·298	·324	·280
	DEEP WELLS.													
	Kent	·449	·459	·493	·480	·490	·504	·494	·505	·492	·480	·462	·440	·479
	East London	·017	·032	·100	·026	·012	·017	·017	·024	·025	·012	·151	·018	·038
	Colne Valley	·533	·460	·446	·421	·386	·441	·456	·419	·419	·444	·509	·490	·452
	Tottenham	·330	·068	·078	·072	·092	·257	·114	·050	·127	·066	·087	·054	·116

TABLE I.

CHLORINE in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	1·8	1·7	1·8	1·8	1·9	2·1	2·0	1·9	1·9
	Chelsea	1·7	1·8	1·9	1·8	1·8	1·7	1·8	1·8	1·8	2·0	1·9	1·9	1·8
	West Middlesex	1·7	1·8	1·9	1·7	1·8	1·7	1·8	1·8	1·9	2·0	1·9	1·9	1·8
	Southwark	1·7	1·8	1·9	1·7	1·8	1·7	1·8	1·8	1·9	2·0	1·9	1·9	1·8
	Grand Junction	1·7	1·8	1·8	1·7	1·8	1·7	1·8	1·8	1·9	1·9	1·9	1·9	1·8
	Lambeth	1·8	1·9	1·9	1·9	1·9	1·8	1·9	2·0	2·0	2·1	1·9	1·9	1·9
	LEA.													
	Raw New River water.	—	—	—	—	1·7	1·7	1·8	1·8	1·7	2·0	1·8	1·7	1·8
	New River	1·8	1·7	1·8	1·8	1·9	1·7	1·8	1·8	1·8	1·8	1·7	1·8	1·8
Outer Circle.	Raw Lea water	—	—	—	—	1·9	1·9	1·9	2·0	1·9	2·1	2·1	2·0	2·0
	East London	2·1	2·1	2·1	2·1	2·0	1·9	2·0	2·0	1·9	2·0	2·0	2·0	2·0
	DEEP WELLS.													
	Kent	2·4	2·5	2·4	2·5	2·5	2·4	2·5	2·4	2·5	2·4	2·3	2·3	2·4
	East London	2·0	2·1	2·4	2·1	2·1	2·1	2·1	2·1	2·1	2·2	2·0	2·1	2·1
	Colne Valley	2·3	2·2	2·1	2·1	2·1	2·1	2·1	2·1	2·3	2·2	2·3	2·1	2·2
	Tottenham	3·2	3·0	3·1	3·0	3·1	3·1	3·0	3·0	2·8	3·0	2·9	3·0	3·0

Metropolitan Water Supply.

TABLE K.

DEGREES of HARDNESS (1 deg. = 1 part of carbonate of lime, or its equivalent,) in 100,000 parts of the WATERS.

COMPANIES OR LOCAL AUTHORITIES.		1892.												
		Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean.
Inner Circle.	THAMES.													
	Raw river water	—	—	—	—	18·9	20·0	18·6	19·1	19·1	19·7	22·1	23·3	20·1
	Chelsea	23·9	23·6	20·9	19·4	17·4	19·7	18·6	17·1	17·4	18·6	23·6	22·7	20·0
	West Middlesex	24·2	24·2	21·2	19·1	17·7	19·1	19·4	17·1	18·3	19·4	21·8	23·0	20·4
	Southwark	24·8	24·2	22·8	20·9	19·4	19·4	18·6	18·6	18·9	20·6	22·1	22·7	21·0
	Grand Junction	25·1	24·2	21·5	20·3	18·9	19·1	19·1	18·9	19·1	19·7	22·1	27·7	20·9
	Lambeth	25·4	24·8	21·5	20·6	19·4	20·0	19·1	19·4	19·4	20·0	21·8	23·0	21·2
	LEA.													
	Raw New River water.	—	—	—	—	20·0	20·3	22·4	21·2	20·0	21·2	23·6	24·8	21·7
	New River	24·5	23·9	22·1	20·6	18·9	19·7	20·6	20·6	20·9	22·4	23·3	23·9	21·8
Outer Circle.	Raw Lea water	—	—	—	—	21·5	21·2	21·5	21·5	22·7	26·0	27·8	27·8	23·7
	East London	26·0	24·8	23·0	20·9	20·0	20·6	20·0	19·4	19·4	21·2	24·8	25·4	22·1
	DEEP WELLS.													
	Kent	29·7	28·1	28·1	27·2	28·7	28·4	29·0	28·7	28·7	28·7	27·2	28·0	28·4
	East London	20·6	18·6	23·0	18·6	17·7	17·7	18·2	19·7	18·6	18·3	18·7	20·0	19·2
	Colne Valley	9·0	8·6	6·4	6·4	7·9	6·6	6·3	5·7	7·1	7·6	8·6	9·3	7·5
	Tottenham	28·0	22·4	24·2	24·2	23·6	24·2	24·2	23·6	21·8	23·9	23·3	24·8	23·9

TABLE L.

AVERAGES FOR 1892.

The numbers in the Table relate to 100,000 parts of each Water.

COMPANIES OR LOCAL AUTHORITIES.		Temperature in Centigrade Degrees.	Total Solid Matters.	Organic Carbon.	Organic Nitrogen.	Ammonia.	Nitrogen, as Nitrates and Nitrites.	Total combined Nitrogen.	Chlorine.	Total Hardness.	Proportional Amount of Organic Elements in the Kent Company's Water during the 9 years ending Dec. 1896 being taken as 1.
Inner Circle.	THAMES.	°									
	Raw river water	13·3	29·20	*260	*034	*008	*162	*226	1·9	20·1	5·0
	Chelsea	11·1	28·34	*170	*020	0	*204	*224	1·8	20·0	3·2
	West Middlesex	10·3	28·74	*181	*022	0	*211	*233	1·8	20·4	3·5
	Southwark	11·6	29·82	*178	*024	0	*214	*239	1·8	21·0	3·4
	Grand Junction	11·8	29·50	*179	*025	0	*213	*237	1·8	20·9	3·5
	Lambeth	11·2	30·34	*181	*023	0	*255	*278	1·9	21·2	3·5
	LEA.										
	Raw New River water	12·8	30·92	*130	*019	*005	*246	*269	1·8	21·7	2·5
	New River	11·1	30·40	*100	*016	0	*257	*272	1·8	21·8	2·0
Outer Circle.	Raw Lea water	12·9	33·49	*219	*036	*012	*215	*260	2·0	23·7	4·3
	East London	11·3	32·62	*155	*024	0	*256	*280	2·0	22·1	3·0
	DEEP WELLS.										
	Kent	11·7	40·93	*040	*008	0	*471	*479	2·4	28·4	0·8
	Colne Valley	—	18·36	*080	*017	*008	*429	*452	2·1	7·5	1·7
	Tottenham	—	42·06	*067	*016	*033	*074	*116	2·2	23·9	1·4
	East London	—	28·66	*092	*014	*005	*019	*038	3·0	19·2	1·8

NOTE.—The numbers in these tables may be converted into grains per imperial gallon by multiplying them by 7, and then moving the decimal point one place to the left.



FIRES IN LONDON DURING THE YEAR 1892.

Captain J. Sexton Simmonds, Chief Officer of the Metropolitan Fire Brigade, reported to the London County Council that the number of fires attended during 1892 was 3146, exceeding by 254 the number in the preceding year, and by 855 the average in the ten years 1882-91. According to this report the lives of 169 persons were seriously endangered, and 64 of these were lost. The numbers of lives lost by fires in London in the four preceding years were 48, 44, 61, and 61 respectively.

The staff of the Metropolitan Fire Brigade at the end of the year was distributed at 55 land engine, 4 floating, 52 hose cart, and 179 escape stations. The number of fire engines at these stations was 152, an increase of one upon the number in the previous year; 9 were floating steam engines, 48 land steam engines, and 95 manual engines. The authorised strength of the brigade was 710 of all ranks, including the chief officer, second officer, and the superintendents. The cases of injury occurring in the brigade during the year were 95, against numbers ranging from 142 to 90 in the eight previous years.

Number of Fires and of False Alarms attended during the Eleven Years 1882-92, and in each Month of 1892.

YEARS AND MONTHS.	TOTAL CALLS.	FALSE ALARMS AND CHIMNEYS.	FIRES.					
			Serious	Slight.	Total.	Per-centages.		
						Serious.	Slight.	
1882 - - -	2341	415	164	1762	1026	8.5	91.5	
1883 - - -	2630	436	184	1900	2144	8.6	91.4	
1884 - - -	2806	517	194	2095	2289	8.5	91.5	
1885 - - -	2851	581	160	2110	2270	7.0	93.0	
1886 - - -	2853	704	151	1998	2149	7.0	93.0	
1887 - - -	3059	693	175	2188	2363	7.4	92.6	
1888 - - -	2693	705	121	1807	1989	6.1	93.9	
1889 - - -	3131	793	153	2185	2328	6.5	93.5	
1890 - - -	3546	991	153	2402	2555	6.0	94.0	
1891 - - -	4164	1272	193	2699	2892	6.7	93.3	
1892 - - -	4449	1303	177	2969	3146	5.6	94.4	
1892. {	January - -	397	110	26	261	287	9.1	90.9
	February - -	328	117	15	193	211	7.1	92.9
	March - - -	370	101	14	255	269	5.8	94.8
	April - - -	389	107	18	264	282	6.4	93.6
	May - - -	422	109	11	302	313	3.5	96.5
	June - - -	364	108	12	244	256	4.7	95.3
	July - - -	333	108	13	212	225	5.8	94.2
	August - - -	385	115	14	256	270	5.2	94.8
	September -	336	108	12	216	223	5.3	94.7
	October - -	334	98	19	222	241	7.9	92.1
	November -	310	116	13	211	224	5.8	94.2
	December -	451	111	10	330	340	2.9	97.1

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